

501

	420		425		430								
Glu	Lys	Gly	Gln	Ser	Ile	Asp	Asp	Met	Ile	Pro	Ala	Gln	Lys
	435					440						445	

<210> 500

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 500

Leu	Cys	Pro	Arg	His	Ala	Xaa	Xaa	Ala	His	Leu	His	Val	Glu	Ile	Phe
1				5					10					15	

Gly	Thr	Gln	Gly	Lys	Pro	Ala	Ile	Ala	His	Arg	Asp	Phe	Lys	Ser	Arg
		20					25						30		

Asn	Val	Leu	Val	Lys	Ser	Asn	Leu	Gln	Cys	Cys	Ile	Ala	Asp	Leu	Gly
	35						40					45			

Leu	Ala	Val	Met	His	Ser	Gln	Gly	Ser	Asp	Tyr	Leu	Asp	Ile	Gly	Asn
	50						55					60			

Asn	Pro	Arg	Val	Gly	Thr	Lys	Arg	Tyr	Met	Ala	Pro	Glu	Val	Leu	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

502

65		70		75		80
Glu Gln Ile Arg Thr Asp Cys Phe Glu Ser Tyr Lys Trp Thr Asp Ile						
	85		90		95	
Trp Ala Phe Gly Leu Val Leu Trp Glu Ile Ala Arg Arg Thr Ile Val						
	100		105		110	
Asn Gly Ile Val Glu Asp Tyr Arg Pro Pro Phe Tyr Xaa Val Val Pro						
	115		120		125	
Asn Asp Pro Ser Phe Glu Asp Met Lys Lys Val Val Cys Val Asp Gln						
	130		135		140	
Gln Thr Pro Thr Ile Pro Asn Arg Leu Ala Ala Asp Pro Val Leu Ser						
	145		150		155	160
Gly Leu Ala Gln Met Met Arg Glu Cys Trp Tyr Pro Asn Pro Ser Ala						
	165		170		175	
Arg Leu Xaa Ala Leu Gly Ser Arg Arg His Tyr Lys Lys Leu Ala Thr						
	180		185		190	
Val Gln Arg Xaa Leu Lys						
	195					

<210> 501

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 501

His Glu Gly Gly Gly His Gly His Ala Gly His His His His His

1

5

10

15

503

His	His	His	His	His	Pro	Pro	Met	Ile	Ala	Leu	Gln	Pro	Leu	Val	Thr	20	25	30
Asp	Asp	Pro	Thr	Gln	Val	His	His	His	Gln	Glu	Val	Ile	Leu	Val	Gln	35	40	45
Thr	Arg	Glu	Glu	Val	Val	Gly	Gly	Asp	Asp	Ser	Asp	Gly	Leu	Arg	Ala	50	55	60
Glu	Asp	Gly	Phe	Glu	Asp	Gln	Ile	Leu	Ile	Pro	Val	Pro	Ala	Pro	Ala	65	70	75
Gly	Gly	Asp	Asp	Asp	Tyr	Ile	Glu	Gln	Thr	Leu	Val	Thr	Val	Ala	Ala	85	90	95
Ala	Gly	Lys	Ser	Gly	Gly	Gly	Gly	Ser	Phe	Val	Val	Gly	Arg	Arg	Pro	100	105	110
Arg	Gln	Glu	Gly	Arg	Arg	Xaa	Glu	Glu	Arg	Gln	Glu	Glu	Leu	Pro	Gln	115	120	125
Arg	Arg	Gly	Ala	Arg	Arg	Ala	Ala	Xaa	Arg	Thr	Arg	Xaa	Asn	Lys	Lys	130	135	140
Trp	Glu	Gln	Lys	Gln	Val	Gln	Ile	Lys	Thr	Leu	Glu	Gly	Glu	Phe	Ser	145	150	155
Val	Thr	Met	Trp	Ser	Ser	Asp	Glu	Lys	Lys	Asp	Ile	Asp	His	Glu	Thr	165	170	175
Val	Val	Glu	Glu	Gln	Ile	Ile	Gly	Glu	Asn	Ser	Pro	Pro	Asp	Tyr	Ser	180	185	190
Glu	Tyr	Met	Thr	Gly	Lys	Lys	Leu	Pro	Pro	Gly	Gly	Ile	Pro	Gly	Ile	195	200	205
Asp	Leu	Ser	Asp	Pro	Lys	Gln	Leu	Ala	Glu	Phe	Ala	Arg	Met	Lys	Pro	210	215	220
Arg	Lys	Ile	Lys	Glu	Asp	Asp	Ala	Pro	Arg	Thr	Ile	Ala	Cys	Pro	His	225	230	235
Lys	Gly	Cys	Thr	Lys	Met	Phe	Arg	Asp	Asn	Ser	Ala	Met	Arg	Lys	His	245	250	255
Leu	His	Thr	His	Gly	Pro	Arg	Val	His	Val	Cys	Ala	Glu	Cys	Gly	Lys	260	265	270
Ala	Phe	Val	Glu	Ser	Ser	Lys	Leu	Lys	Arg	His	Gln	Leu	Val	His	Thr	275	280	285

504

Gly Glu Lys Pro Phe Gln Cys Thr Phe Glu Gly Cys Gly Lys Arg Phe
 290 295 300
 Ser Leu Asp Phe Asn Leu Arg Thr His Val Arg Ile His Thr Gly Asp
 305 310 315 320
 Arg Pro Tyr Val Cys Pro Phe Asp Gly Cys Asn Lys Lys Phe Ala Gln
 325 330 335
 Ser Thr Asn Leu Lys Ser His Ile Leu Thr His Ala Lys Ala Lys Asn
 340 345 350
 Asn Gln

<210> 502
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 502
 Leu Pro Trp Leu Leu Phe Glu Thr Val Met Thr Phe Leu Leu Ile Ser
 1 5 10 15
 Leu Leu Val Ser Phe Ser Gly Arg Ala Gly Cys Leu Glu Phe Ser Val
 20 25 30
 Lys Glu Thr Gln Asp Ser Pro Leu Phe Leu Cys Leu Trp Glu Ser Pro
 35 40 45
 Trp His Thr Pro Lys Arg Gly Pro Cys Ser Val Ser Gln Gly Ser Phe
 50 55 60
 Cys Ile Phe Gly Leu Ala Ser Tyr Ile Cys His Val Val Ser Ser Ser
 65 70 75 80
 Ala

<210> 503
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

505

<222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 503
 Thr Pro Ala Pro Xaa Ser Pro Ala Ala Ala Arg Glu Ser Thr Arg Arg
 1 5 10 15

 Val Ala Ile Asn Val Arg Ala Ser Ile Ala Leu Ser Xaa Ser Leu Arg
 20 25 30

 Thr Leu Val Leu Pro Arg Leu Thr Xaa Thr Ser Pro Gly Pro Arg Gly
 35 40 45

 Xaa Gly Xaa Phe Gly Cys Pro Xaa Ser Phe Lys
 50 55

 <210> 504
 <211> 251
 <212> PRT
 <213> Homo sapiens

 <400> 504
 Ser Leu Phe Thr Met Ser Leu Gln Arg Leu Leu Gln His Ser Ser Asn
 1 5 10 15

506

```

Gly Asn Leu Ala Asp Phe Cys Ala Gly Pro Ala Tyr Ser Ser Tyr Ser
      20              25              30

Thr Leu Thr Gly Ser Leu Thr Met Asp Asp Asn Arg Arg Ile Gln Met
      35              40              45

Leu Ala Asp Thr Val Ala Thr Leu Pro Arg Gly Arg Lys Gln Leu Ala
      50              55              60

Leu Thr Arg Ser Ser Ser Leu Ser Asp Phe Ser Trp Ser Gln Arg Lys
      65              70              75              80

Leu Val Thr Val Glu Lys Gln Asp Asn Glu Thr Phe Gly Phe Glu Ile
      85              90              95

Gln Ser Tyr Arg Pro Gln Asn Gln Asn Ala Cys Ser Ser Glu Met Phe
      100             105             110

Thr Leu Ile Cys Lys Ile Gln Glu Asp Ser Pro Ala His Cys Ala Gly
      115             120             125

Leu Gln Ala Gly Asp Val Leu Ala Asn Ile Asn Gly Val Ser Thr Glu
      130             135             140

Gly Phe Thr Tyr Lys Gln Val Val Asp Leu Ile Arg Ser Ser Gly Asn
      145             150             155             160

Leu Leu Thr Ile Glu Thr Leu Asn Gly Thr Met Ile Leu Lys Arg Thr
      165             170             175

Glu Leu Glu Ala Lys Leu Gln Val Leu Lys Gln Thr Leu Lys Gln Asn
      180             185             190

Gly Trp Ser Thr Asp Leu Cys Ser Tyr Arg Asn Ile Val Cys Phe Met
      195             200             205

Val Met Gln Leu Ile Ala Pro Val Trp Glu Asn Met Gly Leu Gly Met
      210             215             220

Glu Leu Ser Leu Phe Gly Pro Leu Pro Gly Pro Gly Pro Ala Leu Val
      225             230             235             240

Asp Arg Asn Arg Leu Ser Ser Glu Ser Ser Cys
      245             250

```

<210> 505

<211> 112

<212> PRT

507

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 505

Ile	Arg	Gln	Ser	Gly	Thr	Ser	Gly	Thr	Arg	Pro	Arg	Gly	Pro	Gln	Glu
1				5					10					15	

Pro	Arg	Ala	Ala	Xaa	Arg	Gly	Ser	Phe	Leu	Ala	Ser	Ala	Arg	Arg	Val
		20						25					30		

Gly	Ser	Trp	Leu	Val	Ser	Ala	Glu	Gly	Val	Gly	Gly	Pro	Ala	Leu	Leu
		35					40					45			

Phe	Ser	Pro	Ala	Lys	Pro	Gln	Trp	Glu	Leu	Gly	Gln	Gly	Glu	Ser	Gln
	50					55					60				

Ala	Ile	Gly	Gly	Gln	Xaa	Trp	Gly	Cys	Ser	Pro	Thr	Val	Cys	Ile	Cys
65				70						75				80	

Ser	Ala	Leu	Trp	Gly	Ile	Gln	Glu	His	Pro	Pro	Ser	Arg	Gly	Trp	Glu
			85						90					95	

Pro	Cys	Pro	Met	Lys	Pro	Ser	Pro	Gln	Leu	Tyr	Leu	Leu	Pro	Arg	Pro
			100					105					110		

<210> 506

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 506

Lys Asn His Val Ser Ser Leu Ser Ser Tyr Phe Phe Phe Ser Xaa Phe

508

```

      1             5             10             15
Ser Leu Pro Arg Thr Phe Ser Leu Phe Ser Thr Asn Val His Leu Val
      20             25             30
Phe Phe Gly Ser Ala Lys Ile Ser Ile Cys Val Cys Leu Gln Leu Ser
      35             40             45
Leu Leu Thr Ala His Ser Lys Gly Phe Cys Ile Ser Gly Phe His Phe
      50             55             60
Val Ala Ala Glu Met Leu Arg Gln Ala Ser Ala Ser Ala Pro Ala Gly
      65             70             75             80
Cys Thr Met Leu Leu Pro Arg Arg Glu Asp Thr Glu Ser Lys Trp Gln
      85             90             95
Asp Leu Arg Leu Ala Ser Thr Leu Pro
      100             105

```

<210> 507

<211> 406

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 507

```

Val Lys Gly Asp Lys Gly Asn Pro Gly Trp Pro Gly Ala Pro Gly Val
  1             5             10             15
Pro Gly Pro Lys Gly Asp Pro Gly Phe Gln Gly Met Pro Gly Ile Gly
      20             25             30
Gly Ser Pro Gly Ile Thr Gly Ser Lys Gly Asp Met Gly Pro Pro Gly
      35             40             45
Val Pro Gly Phe Gln Gly Pro Lys Gly Leu Pro Gly Leu Gln Gly Ile
      50             55             60
Lys Gly Asp Gln Gly Asp Xaa Gly Val Pro Gly Ala Lys Gly Leu Pro
      65             70             75             80
Gly Pro Pro Gly Pro Gly Pro Tyr Asp Ile Ile Lys Gly Glu Pro
      85             90             95

```

Gly Leu Pro Gly Pro Glu Gly Pro Pro Gly Leu Lys Gly Leu Gln Gly
 100 105 110
 Leu Pro Gly Pro Lys Gly Gln Gln Gly Val Thr Gly Leu Val Gly Ile
 115 120 125
 Pro Gly Pro Pro Gly Ile Pro Gly Phe Asp Gly Ala Pro Gly Gln Lys
 130 135 140
 Gly Glu Met Gly Pro Ala Gly Pro Thr Gly Pro Arg Gly Phe Pro Gly
 145 150 155 160
 Pro Pro Gly Pro Asp Gly Leu Pro Gly Ser Met Gly Pro Pro Gly Thr
 165 170 175
 Pro Ser Val Asp His Gly Phe Leu Val Thr Arg His Ser Gln Thr Ile
 180 185 190
 Asp Asp Pro Gln Cys Pro Ser Gly Thr Lys Ile Leu Tyr His Gly Tyr
 195 200 205
 Ser Leu Leu Tyr Val Gln Gly Asn Glu Arg Ala His Gly Gln Asp Leu
 210 215 220
 Gly Thr Ala Gly Ser Cys Leu Arg Lys Phe Ser Thr Met Pro Phe Leu
 225 230 235 240
 Phe Cys Asn Ile Asn Asn Val Cys Asn Phe Ala Ser Arg Asn Asp Tyr
 245 250 255
 Ser Tyr Trp Leu Ser Thr Pro Glu Pro Met Pro Met Ser Met Ala Pro
 260 265 270
 Ile Thr Gly Glu Asn Ile Arg Pro Phe Ile Ser Arg Cys Ala Val Cys
 275 280 285
 Glu Ala Pro Ala Met Val Met Ala Val His Ser Gln Thr Ile Gln Ile
 290 295 300
 Pro Pro Cys Pro Ser Gly Trp Ser Ser Leu Trp Ile Gly Tyr Ser Phe
 305 310 315 320
 Val Met His Thr Ser Ala Gly Ala Glu Gly Ser Gly Gln Ala Leu Ala
 325 330 335
 Ser Pro Gly Ser Cys Leu Glu Glu Phe Arg Ser Ala Pro Phe Ile Glu
 340 345 350
 Cys His Gly Arg Gly Thr Cys Asn Tyr Tyr Ala Asn Ala Tyr Ser Phe
 355 360 365

510

Trp Leu Ala Thr Ile Glu Arg Ser Glu Met Phe Lys Lys Pro Thr Pro
 370 375 380

Ser Thr Leu Lys Ala Gly Glu Leu Arg Thr His Val Ser Arg Cys Gln
 385 390 395 400

Val Cys Met Arg Arg Thr
 405

<210> 508
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 508
 Leu Pro Ser Pro Asn Thr Gly Leu Trp Pro Gln Arg Xaa Ser Phe Ser
 1 5 10 15

Gly Arg Lys Phe Val Pro Thr Asp Cys Pro Pro Ala Phe Phe Pro Leu
 20 25 30

Ala Ala Ile Cys Cys Arg Leu Glu Pro Glu Ser Arg Pro Ala Phe Ser
 35 40 45

Lys Leu Glu Asp Ser Phe Glu Ala Leu Ser Leu Tyr Leu Gly Glu Leu
 50 55 60

Gly Ile Pro Leu Pro Ala Glu Leu Glu Glu Leu Asp His Thr Val Ser
 65 70 75 80

Met Gln Tyr Gly Leu Thr Arg Asp Ser Pro Pro
 85 90

<210> 509
 <211> 74
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

511

<400> 509

Thr Cys Ile His Ile Gly Phe Gln Asp Ile Leu Ser Tyr Ile Phe Ser
 1 5 10 15

Ser Phe Gln Ser Cys Phe Leu Phe Trp Gly Tyr Phe Phe Phe Xaa Leu
 20 25 30

Cys Asn Ser Gln Arg Ala Ala Phe Phe Phe Phe Phe Asn Lys Ala Tyr
 35 40 45

Asn Tyr Gly Trp Ile Phe Cys Ser Ser Leu Leu Arg Arg Ala Ile Leu
 50 55 60

Phe Phe Arg Val Thr Ser Lys Val Met Trp
 65 70

<210> 510

<211> 47

<212> PRT

<213> Homo sapiens

<400> 510

Leu Val Phe Phe Thr Asp Ser Leu Phe Ser Arg Arg Ala Phe Tyr Leu
 1 5 10 15

Asn Lys Thr Met Gln Leu Ser Lys Pro Ile Tyr Gly Leu Arg Glu Thr
 20 25 30

Phe Leu His Glu Phe Leu Gln Thr Val Cys Tyr Ile Phe Leu Glu
 35 40 45

<210> 511

<211> 246

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 511

Gly Ala Arg Ser Pro Ala Met Ser Arg Ser Asn Arg Gln Lys Glu Tyr
 1 5 10 15

Lys Cys Gly Asp Leu Val Phe Ala Lys Met Lys Gly Tyr Pro His Trp

512

20	25	30
Pro Ala Arg Ile Asp Glu Met	Pro Glu Ala Ala Val Lys Ser Thr Ala	
35	40	45
Asn Lys Tyr Gln Val Phe Phe Phe Gly Thr His Glu Thr Ala Phe Leu		
50	55	60
Gly Pro Lys Asp Leu Phe Pro Tyr Glu Glu Ser Lys Glu Lys Phe Gly		
65	70	75
Lys Pro Asn Lys Arg Lys Gly Phe Ser Glu Gly Leu Trp Glu Ile Glu		
85	90	95
Asn Asn Pro Thr Val Lys Ala Ser Gly Tyr Gln Ser Ser Gln Lys Lys		
100	105	110
Ser Cys Val Glu Glu Pro Glu Pro Glu Pro Glu Ala Ala Glu Gly Asp		
115	120	125
Gly Asp Lys Lys Gly Asn Ala Glu Gly Ser Ser Asp Glu Glu Gly Lys		
130	135	140
Leu Val Ile Asp Glu Pro Ala Lys Glu Lys Asn Glu Lys Gly Ala Leu		
145	150	155
Lys Arg Arg Ala Gly Asp Leu Leu Glu Asp Ser Pro Lys Arg Pro Lys		
165	170	175
Glu Ala Glu Asn Pro Glu Gly Glu Glu Lys Glu Ala Ala Thr Leu Glu		
180	185	190
Val Glu Arg Pro Leu Pro Met Glu Val Glu Lys Asn Ser Thr Xaa Ser		
195	200	205
Glu Pro Gly Ser Gly Arg Gly Pro Pro Gln Glu Glu Glu Glu Glu		
210	215	220
Asp Glu Glu Glu Glu Ala Thr Lys Glu Asp Ala Glu Ala Pro Gly Ile		
225	230	235
Arg Asp His Glu Ser Leu		
245		

<210> 512

<211> 250

<212> PRT

<213> Homo sapiens

513

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512

Leu Xaa Trp Glu Thr Val Gln Lys Asn Gln Asn Leu Arg Cys Phe Val
 1 5 10 15

Phe Ile Phe Ile Ser Ser Trp Thr Asp Leu Gly Val Ala Thr Val Val
 20 25 30

Cys Gln Pro Asn Glu Phe Ile Met Pro Asp Ser Ala Val Val Gly Asp
 35 40 45

Val Leu Val Leu Thr Lys Pro Leu Gly Thr Gln Val Ala Val Asn Ala
 50 55 60

His Gln Trp Leu Asp Asn Pro Glu Arg Trp Asn Lys Val Lys Met Val
 65 70 75 80

Val Ser Arg Glu Glu Val Glu Leu Ala Tyr Gln Glu Ala Met Phe Asn
 85 90 95

Met Ala Thr Leu Asn Arg Thr Ala Ala Gly Leu Met His Thr Phe Asn
 100 105 110

Ala His Ala Ala Thr Asp Ile Thr Gly Phe Gly Ile Leu Gly His Ser
 115 120 125

Gln Asn Leu Ala Lys Gln Gln Arg Asn Glu Val Ser Phe Val Ile His
 130 135 140

Asn Leu Pro Ile Ile Ala Lys Met Ala Ala Val Ser Lys Ala Ser Gly
 145 150 155 160

Arg Phe Gly Leu Leu Gln Gly Thr Ser Ala Glu Thr Ser Gly Gly Leu
 165 170 175

Leu Ile Cys Leu Pro Arg Glu Gln Ala Ala Arg Phe Cys Ser Glu Ile
 180 185 190

Lys Ser Ser Lys Tyr Gly Glu Gly His Gln Ala Trp Ile Val Gly Ile
 195 200 205

Val Glu Lys Gly Asn Arg Thr Ala Arg Ile Ile Asp Lys Pro Arg Val
 210 215 220

Ile Glu Val Leu Pro Arg Gly Ala Thr Ala Ala Val Leu Ala Pro Asp
 225 230 235 240

Ser Ser Asn Ala Ser Ser Glu Pro Ser Ser
245 250

Pro Asn Trp Met Asn Met Ala Gln Pro Lys Gln Leu Arg Pro Lys Arg
100 105 110

515

Glu	Glu	Glu	Glu	Asp	Phe	Ile	Arg	Ala	Ala	Phe	Gly	Lys	Glu	Ser	Glu	115	120	125
Val	Leu	Ile	Gly	Asn	Leu	Gly	Asp	Lys	Leu	Ile	Pro	Pro	Gln	Asp	Ile	130	135	140
Leu	Arg	Asp	Val	Ser	Asp	Leu	Lys	Ala	Leu	Ala	Asn	Met	His	Glu	Ser	145	150	155
Leu	Glu	Trp	Leu	Ala	Ser	Arg	Thr	Lys	Ser	Ala	Phe	Ser	Asn	Leu	Ser	165	170	175
Thr	Ser	Gln	Met	Leu	Ser	Pro	Ala	Gln	Asp	Ser	His	Thr	Asn	Thr	Asp	180	185	190
Leu	Pro	Pro	Val	Ser	Glu	Gln	Ile	Met	Gln	Thr	Leu	Ser	Glu	Leu	Ala	195	200	205
Lys	Ser	Phe	Gln	Xaa	Met	Ala	Asp	Arg	Cys	Leu	Leu	Val	Leu	His	Leu	210	215	220
Glu	Val	Arg	Val	His	Cys	Phe	His	Tyr	Leu	Ile	Pro	Leu	Ala	Lys	Glu	225	230	235
Gly	Asn	Tyr	Ala	Ile	Val	Ala	Asn	Val	Glu	Ser	Met	Asp	Tyr	Asp	Pro	245	250	255
Leu	Val	Val	Lys	Leu	Asn	Lys	Asp	Ile	Ser	Ala	Ile	Glu	Glu	Ala	Met	260	265	270
Ser	Ala	Xaa	Phe	Gln	Gln	His	Lys	Phe	Gln	Tyr	Ile	Phe	Glu	Gly	Leu	275	280	285
Gly	His	Leu	Ile	Ser	Cys	Ile	Leu	Ile	Asn	Gly	Ala	Gln	Tyr	Phe	Arg	290	295	300
Arg	Ile	Ser	Glu	Ser	Gly	Ile	Lys	Lys	Met	Cys	Arg	Asn	Ile	Phe	Xaa	305	310	315
Leu	Gln	Gln	Asn	Leu	Thr	Asn	Ile	Thr	Met	Ser	Arg	Glu	Ala	Asp	Leu	325	330	335
Asp	Phe	Ala	Arg	Gln	Tyr	Tyr	Glu	Met	Leu	Tyr	Asn	Thr	Ala	Asp	Glu	340	345	350
Leu	Leu	Asn	Leu	Val	Val	Asp	Gln	Gly	Val	Lys	Tyr	Thr	Glu	Leu	Glu	355	360	365
Tyr	Ile	His	Ala	Leu	Thr	Leu	Leu	His	Arg	Ser	Gln	Thr	Gly	Val	Gly	370	375	380

516

Glu Leu Thr Thr Gln Asn Thr Arg Leu Gln Arg Leu Lys Glu Ile Ile
385 390 395 400

Cys Glu Gln Ala Ala Ile Lys Gln Ala Thr Lys Asp Lys Lys Ile Thr
405 410 415

Thr Val

<210> 514

<211> 61

<212> PRT

<213> Homo sapiens

<400> 514

Lys Ala Ser Asp Cys Ser Met Leu Thr Pro Thr Ser Arg Tyr Glu Gln
1 5 10 15

Phe Thr Glu Asn Leu Pro Leu Trp Gln Leu Lys Met Glu Val Trp Gly
20 25 30

Ala Gln Thr Thr Leu Ser Asn Asn Ile Lys Ala Asn Ile Asn Ser His
35 40 45

Lys His Tyr Arg Ile Cys Lys Phe Arg Thr Phe Tyr Thr
50 55 60

<210> 515

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

517

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 515

Arg	Ser	Trp	Gly	Gly	Leu	Xaa	Arg	Ser	Thr	Gly	Thr	Ala	Arg	Arg	Thr
1				5					10					15	

Ser	Trp	Arg	Arg	Ser	Gly	Gln	Cys	Arg	Thr	Gly	Cys	Ala	Asp	Thr	Thr
			20					25					30		

Thr	Ser	Trp	Xaa	Xaa	Pro	Xaa	Thr	Leu	Gln	Arg	Arg	Val	Gln	Pro	Xaa
			35				40					45			

Val	Asn	Val	Ser	Pro	Ser	Lys	Lys	Gly	Pro	Leu	Gln	His	His	Asn	Leu
	50					55					60				

Leu	Val	Cys	His	Val	Thr	Asp	Phe	Tyr	Pro	Gly	Ser	Ile	Gln	Val	Arg
65					70					75					80

Trp	Phe	Leu	Asn	Gly	Gln	Glu	Glu	Thr	Ala	Gly	Val	Val	Ser	Thr	Asn
			85						90					95	

Leu	Ile	Arg	Asn	Gly	Asp	Trp	Thr	Phe	Gln	Ile	Leu	Val	Met	Leu	Glu
			100					105					110		

Met	Thr	Pro	Gln	Gln	Gly	Asp	Val	Tyr	Xaa	Cys	Gln	Val	Glu	His	Thr
		115				120						125			

Ser	Leu	Asp	Ser	Pro	Val	Thr	Val	Glu	Trp	Lys	Ala	Gln	Ser	Asp	Ser
	130					135						140			

Ala	Arg	Ser	Lys	Thr	Leu	Thr	Gly	Ala	Gly	Gly	Phe	Val	Leu	Gly	Leu
145					150					155					160

Ile	Ile	Cys	Gly	Val	Gly	Ile	Phe	Met	His	Arg	Arg	Ser	Lys	Lys	Val
			165					170						175	

Gln Arg Gly Ser Ala

518

180

<210> 516

<211> 255

<212> PRT

<213> Homo sapiens

<400> 516

Ala Leu Glu Arg Arg Val Arg Lys Ser Gly Asp Cys Cys Thr Asp Ser
 1 5 10 15

Gly Thr Met Asn Ile Phe Asp Arg Lys Ile Asn Phe Asp Ala Leu Leu
 20 25 30

Lys Phe Ser His Ile Thr Pro Ser Thr Gln Gln His Leu Lys Lys Val
 35 40 45

Tyr Ala Ser Phe Ala Leu Cys Met Phe Val Ala Ala Ala Gly Ala Tyr
 50 55 60

Val His Met Val Thr His Phe Ile Gln Ala Gly Leu Leu Ser Ala Leu
 65 70 75 80

Gly Ser Leu Ile Leu Met Ile Trp Leu Met Ala Thr Pro His Ser His
 85 90 95

Glu Thr Glu Gln Lys Arg Leu Gly Leu Leu Ala Gly Phe Ala Phe Leu
 100 105 110

Thr Gly Val Gly Leu Gly Pro Ala Leu Glu Phe Cys Ile Ala Val Asn
 115 120 125

Pro Ser Ile Leu Pro Thr Ala Phe Met Gly Thr Ala Met Ile Phe Thr
 130 135 140

Cys Phe Thr Leu Ser Ala Leu Tyr Ala Arg Arg Arg Ser Tyr Leu Phe
 145 150 155 160

Leu Gly Gly Ile Leu Met Ser Ala Leu Ser Leu Leu Leu Ser Ser
 165 170 175

Leu Gly Asn Val Phe Phe Gly Ser Ile Trp Leu Phe Gln Ala Asn Leu
 180 185 190

Tyr Val Gly Leu Val Val Met Cys Gly Phe Val Leu Phe Asp Thr Gln
 195 200 205

Leu Ile Ile Glu Lys Ala Glu His Gly Asp Gln Asp Tyr Ile Trp His
 210 215 220

519

Cys Ile Asp Leu Phe Leu Asp Phe Ile Thr Val Phe Arg Lys Leu Met
 225 230 235 240

Met Ile Leu Ala Met Asn Glu Lys Asp Lys Lys Lys Glu Lys Lys
 245 250 255

<210> 517

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 517

Xaa Val Gly Arg Gly Xaa Arg Cys Ser Ser Ala Ser Pro Gly Thr Pro
 1 5 10 15

Pro Pro Arg Ala Pro Ala Xaa Pro Ser Ala Gly Arg Ala Asp Pro Ala
 20 25 30

Val Leu Ser Pro Ala Ala Arg Ala Gly Ala Ala Pro Ser Ala Pro Gln
 35 40 45

Gln Thr Pro Ile Met Gly Ser Gln Ser Ser Lys Ala Pro Arg Gly Asp
 50 55 60

Val Thr Ala Glu Glu Ala Ala Gly Ala Ser Pro Ala Lys Ala Asn Gly
 65 70 75 80

Xaa Glu Asn Gly His Val Lys Ser Asn Gly Asp Leu Ser Pro Lys Gly

520

	85		90		95
Glu Gly Glu Ser Pro Pro Val Asn Gly Thr Asp Glu Ala Ala Gly Ala					
	100		105		110
Thr Gly Asp Ala Ile Glu Pro Ala Pro Pro Ser Gln Gly Ala Glu Ala					
	115		120		125
Lys Gly Glu Val Pro Pro Lys Glu Thr Pro Lys Lys Lys Lys Phe					
	130		135		140
Ser Phe Lys Lys Pro Phe Lys Leu Ser Gly Leu Ser Phe Lys Arg Asn					
	145		150		160
Arg Lys Glu Gly Gly Gly Asp Ser Ser Ala Ser Ser Pro Thr Glu Glu					
		165		170	175
Glu Gln Glu Gln Gly Glu Ile Gly Ala Cys Ser Asp Glu Gly Thr Ala					
		180		185	190
Gln Glu Gly Lys Ala Ala Ala Thr Pro Glu Ser Gln Glu Pro Gln Ala					
	195		200		205
Lys Gly Ala Glu Ala Ser Ala Ala Ser Glu Glu Glu Ala Gly Pro Gln					
	210		215		220
Ala Thr Glu Pro Ser Thr Pro Ser Gly Pro Glu Ser Gly Pro Thr Pro					
	225		230		240
Ala Ser Ala Glu Gln Asn Glu					
		245			

<210> 518

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 518

Gln Arg Gly Ala Arg Asp Ile Trp Pro Glu Xaa Leu Ser Gly Pro Thr
1 5 10 15

Arg Ala Pro Gly Ser Ala Ala Leu Pro Gly Ser Lys Gly Asp Thr Gly
20 25 30

521

Asn Pro Gly Ala Pro Gly Thr Pro Gly Thr Lys Gly Trp Ala Gly Asp
 35 40 45
 Ser Gly Pro Gln Gly Arg Pro Gly Val Phe Gly Leu Pro Gly Glu Lys
 50 55 60
 Gly Pro Arg Gly Glu Gln Gly Phe Met Gly Asn Thr Gly Pro Thr Gly
 65 70 75 80
 Ala Val Gly Asp Arg Gly Pro Lys Gly Pro Lys Gly Asp Pro Gly Phe
 85 90 95
 Pro Gly Ala Pro Gly Thr Val Gly Ala Pro Gly Ile Ala Gly Ile Pro
 100 105 110
 Gln Lys Ile Ala Val Gln Pro Gly Thr Val Gly Pro Gln Gly Arg Arg
 115 120 125
 Gly Pro Pro Gly Ala Pro Gly Glu Met Gly Pro Gln Gly Pro Pro Gly
 130 135 140
 Glu Pro Gly Phe Arg Gly Ala Pro Gly Lys Ala Gly Pro Gln Gly Arg
 145 150 155 160
 Gly Gly Val Ser Ala Val Pro Gly Phe Arg Gly Asp Glu Gly Pro Ile
 165 170 175
 Gly His Gln Gly Pro Ile Gly Gln Glu Gly Ala Pro Gly Arg Pro Gly
 180 185 190
 Ser Pro Gly Leu Pro Gly Met Pro Gly Arg Ser Val Ser Ile Gly Tyr
 195 200 205
 Leu Leu Val Lys His Ser Gln Thr Asp Gln Glu Pro Met Cys Pro Val
 210 215 220
 Gly Met Asn Lys Leu Trp Ser Gly Tyr Ser Leu Leu Tyr Phe Glu Gly
 225 230 235 240
 Gln Glu Lys Ala His Asn Gln Asp Leu Gly Leu Ala Gly Ser Cys Leu
 245 250 255
 Ala Arg Phe Ser Thr Met Pro Phe Leu Tyr Cys Asn Pro Gly Asp Val
 260 265 270
 Cys Tyr Tyr Ala Ser Arg Asn Asp Lys Ser Tyr Trp Leu Ser Thr Thr
 275 280 285
 Ala Pro Leu Pro Met Met Pro Val Ala Glu Asp Glu Ile Lys Pro Tyr
 290 295 300

522

Ile Ser Arg Cys Ser Val Cys Glu Ala Pro Ala Ile Ala Ile Ala Val
 305 310 315 320

His Ser Gln Asp Val Ser Ile Pro His Cys Pro Ala Gly Trp Arg Ser
 325 330 335

Leu Trp Ile Gly Tyr Ser Phe Leu Met His Thr Ala Ala Gly Asp Glu
 340 345 350

Gly Gly Gly Gln Ser Leu Val Ser Pro Gly Ser Cys Leu Glu Asp Phe
 355 360 365

Arg Ala Thr Pro Phe Ile Glu Cys Asn Gly Gly Arg Gly Thr Cys His
 370 375 380

Tyr Tyr Ala Asn Lys Tyr Ser Phe Trp Leu Thr Thr Ile Pro Glu Gln
 385 390 395 400

Ser Phe Gln Gly Ser Pro Ser Ala Asp Thr Leu Lys Ala Gly Leu Ile
 405 410 415

Arg Thr His Ile Ser Arg Cys Gln Val Cys Met Lys Asn Leu
 420 425 430

<210> 519

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 519

Ser Cys Phe Leu Arg Lys Asp Leu Ser Asn Trp Gln Leu Gln Arg His
 1 5 10 15

Tyr Phe Leu Thr Val Leu Tyr His Val Leu Leu Leu Thr Leu Gln Lys
 20 25 30

Gly Ser Gly Arg Glu Thr Val Ser Leu Phe Tyr Leu Phe Ser Leu Lys
 35 40 45

Tyr Lys Ser Ile Pro Thr Asn His Leu Leu Trp Ser Ala Cys Phe Thr
 50 55 60

Cys Pro Leu Xaa
 65

523

<210> 520
 <211> 97
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 520
 Pro Arg Ser Pro Thr Gly Glu Trp Leu Pro Arg Asp Ser Glu Cys His
 1 5 10 15
 Leu Cys Met Ser Val Thr Thr Gln Ala Gly Asn Ser Ser Glu Gln Ala
 20 25 30
 Ile Pro Gln Ala Met Leu Gln Ala Cys Xaa Gly Ser Trp Leu Asp Arg
 35 40 45
 Glu Lys Cys Lys Gln Phe Xaa Glu Gln His Thr Pro Gln Leu Leu Thr
 50 55 60
 Leu Val Pro Arg Gly Trp Asp Ala His Thr Thr Cys Gln Ala Leu Gly
 65 70 75 80
 Val Cys Gly Thr Met Ser Ser Pro Leu Gln Cys Ile His Ser Pro Asp
 85 90 95
 Leu

<210> 521
 <211> 119
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

524

<400> 521

```

Ser Gln Gly Leu Gly Asn Gly Gly Val Ala Gly Ser Ser Gly Gln Val
 1             5             10             15

Arg Thr Pro Ser Ala Gly Gln Val Ser Pro Phe Pro Pro Gln Ala Ser
      20             25             30

Leu Pro Gln Pro Ser Glu Arg Arg Arg Phe Arg Gly Ser Arg Ala Gly
      35             40             45

Gly Glu Lys Gln Thr Pro Ser Gln Gln Arg Gly Arg Met Gly Ala Gly
      50             55             60

Glu Leu Ala Lys Val Thr Ser Ser Arg Gly Glu Pro Arg Leu Arg Lys
      65             70             75             80

Ala Gly Gly Leu Trp Ala Arg Ser Arg Gln Lys Glu Gln Glu Gly Arg
      85             90             95

Glu Gly Ala Gln Gly Trp Pro Ala Xaa Gly Pro Ala Cys His Leu His
      100            105            110

Pro Pro Gln Phe His Phe Ser
      115

```

<210> 522

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 522

```

Ala Arg Glu Arg Thr Asp Leu Trp Val Leu Gly Gly His Gly Ala Thr
 1             5             10             15

Arg Cys Met Arg Xaa Pro Arg Gly Gln Arg Pro Glu Ser Ala Leu Pro
      20             25             30

Val Ala Gly Ser Gly Arg Arg Ser Asp Pro Gly His Tyr Ser Phe Ser
      35             40             45

Met Arg Ser Pro Glu Leu Ala Leu Pro Arg Gly Met Gln Pro Thr Glu
      50             55             60

```

525

Phe Phe Gln Ser Leu Gly Gly Asp Gly Glu Arg Asn Val Gln Ile Glu
 65 70 75 80
 Met Ala His Gly Thr Thr Thr Leu Ala Phe Lys Phe Gln His Gly Val
 85 90 95
 Ile Ala Ala Val Asp Ser Arg Ala Ser Ala Gly Ser Tyr Ile Ser Ala
 100 105 110
 Leu Arg Val Asn Lys Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr
 115 120 125
 Met Ser Gly Cys Ala Ala Asp Cys Gln Tyr Trp Glu Arg Leu Leu Ala
 130 135 140
 Lys Glu Cys Arg Leu Tyr Tyr Leu Arg Asn Gly Glu Arg Ile Ser Val
 145 150 155 160
 Ser Ala Ala Ser Lys Leu Leu Ser Asn Met Met Cys Gln Tyr Arg Gly
 165 170 175
 Met Gly Leu Ser Met Gly Ser Met Ile Cys Gly Trp Asp Lys Lys Gly
 180 185 190
 Pro Gly Leu Tyr Tyr Val Asp Glu His Gly Thr Arg Leu Ser Gly Asn
 195 200 205
 Met Phe Ser Thr Gly Ser Gly Asn Thr Tyr Ala Tyr Gly Val Met Asp
 210 215 220
 Ser Gly Tyr Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly
 225 230 235 240
 Arg Arg Leu Leu Leu Met Pro Leu Thr Glu Thr Ala Ile Leu Glu Ala
 245 250 255
 Leu Ser Ile Cys Thr Thr
 260

<210> 523

<211> 110

<212> PRT

<213> Homo sapiens

<400> 523

Thr Arg Arg Thr Cys Asp Phe Thr Val Ile Leu Leu Pro Ala Arg Ala
 1 5 10 15

His Leu Ala Met Ala Met Phe Ala Leu Asn Gly Gly Glu Ser Leu Ser

526

20 25 30
 Leu Leu Asp Gln Ile Leu Leu His Tyr Tyr Thr Ser Thr Leu Phe Ile
 35 40 45
 Trp Gly Trp Ala Gly Ser Asp Ser Ser Leu Val Val Gln Leu Pro Asp
 50 55 60
 Tyr Cys Pro Ile Leu Leu Glu Ala His Val Cys Gln Gly Val Val Cys
 65 70 75 80
 Thr Ala Val Phe Gly Thr Ser Ser Leu Phe Ser Ala Ile Ser Phe Pro
 85 90 95
 Tyr Leu Ser Phe Ser Val Asp Phe Ile His His Arg Thr Glu
 100 105 110

<210> 524

<211> 53

<212> PRT

<213> Homo sapiens

<400> 524

Leu Glu Lys Glu Glu Tyr Ala Thr Glu Thr Val Cys Ser Leu Gln Ser
 1 5 10 15
 Leu Lys Cys Leu Leu Ser Gly Leu Gly Val Cys Leu Pro Cys Ser Arg
 20 25 30
 Leu Ser Ala Ser Gly Thr Val Val Gln Tyr Ser Gly Thr Ala Gln Leu
 35 40 45
 His Phe Ser Ala Arg
 50

<210> 525

<211> 205

<212> PRT

<213> Homo sapiens

<400> 525

Arg Ser Cys Ser Gly Cys Ala Arg Ser Gly Leu Arg Arg Glu Val Pro
 1 5 10 15
 Arg Gln Arg Glu Ala Pro Pro Pro Pro Arg Ser Val Leu His Leu
 20 25 30

527

Ser Ala Thr Leu Ala Gly Ala Ala Ala Arg Gly Thr Leu Asn Met
 35 40 45
 Ser Gly Ile Ala Leu Ser Arg Leu Ala Gln Glu Arg Lys Ala Trp Arg
 50 55 60
 Lys Asp His Pro Phe Gly Phe Val Ala Val Pro Thr Lys Asn Pro Asp
 65 70 75 80
 Gly Thr Met Asn Leu Met Asn Trp Glu Cys Ala Ile Pro Gly Lys Lys
 85 90 95
 Gly Thr Pro Trp Glu Gly Gly Leu Phe Lys Leu Arg Met Leu Phe Lys
 100 105 110
 Asp Asp Tyr Pro Ser Ser Pro Pro Lys Cys Lys Phe Glu Pro Pro Leu
 115 120 125
 Phe His Pro Asn Val Tyr Pro Ser Gly Thr Val Cys Leu Ser Ile Leu
 130 135 140
 Glu Glu Asp Lys Asp Trp Arg Pro Ala Ile Thr Ile Lys Gln Ile Leu
 145 150 155 160
 Leu Gly Ile Gln Glu Leu Leu Asn Glu Pro Asn Ile Gln Asp Pro Ala
 165 170 175
 Gln Ala Glu Ala Tyr Thr Ile Tyr Cys Gln Asn Arg Val Glu Tyr Glu
 180 185 190
 Lys Arg Val Arg Ala Gln Ala Lys Lys Phe Ala Pro Ser
 195 200 205

<210> 526

<211> 90

<212> PRT

<213> Homo sapiens

<400> 526

Phe Gly Arg Ala Arg Leu Ile Glu Asp Asn Glu Tyr Thr Ala Arg Gln
 1 5 10 15
 Gly Ala Lys Phe Pro Ile Lys Trp Thr Ala Pro Glu Ala Ala Leu Tyr
 20 25 30
 Gly Arg Phe Thr Ile Lys Ser Asp Val Trp Ser Phe Gly Ile Leu Leu
 35 40 45
 Thr Glu Leu Val Thr Lys Gly Arg Val Pro Tyr Pro Gly Met Asn Asn

528

50 55 60
 Arg Glu Val Leu Glu Gln Val Glu Arg Gly Tyr Arg Met Pro Cys Pro
 65 70 75 80
 Gln Thr Ala Pro Ser Leu Cys Met Ser Ser
 85 90

<210> 527

<211> 479

<212> PRT

<213> Homo sapiens

<400> 527

Ala Trp Ser Ile Met Ala Asp Met Gln Asn Leu Val Glu Arg Leu Glu
 1 5 10 15

Arg Ala Val Gly Arg Leu Glu Ala Val Ser His Thr Ser Asp Met His
 20 25 30

Arg Gly Tyr Ala Asp Ser Pro Ser Lys Ala Gly Ala Ala Pro Tyr Val
 35 40 45

Gln Ala Phe Asp Ser Leu Leu Ala Gly Pro Val Ala Glu Tyr Leu Lys
 50 55 60

Ile Ser Lys Glu Ile Gly Gly Asp Val Gln Lys His Ala Glu Met Val
 65 70 75 80

His Thr Gly Leu Lys Leu Glu Arg Ala Leu Leu Val Thr Ala Ser Gln
 85 90 95

Cys Gln Gln Pro Ala Glu Asn Lys Leu Ser Asp Leu Leu Ala Pro Ile
 100 105 110

Ser Glu Gln Ile Lys Glu Val Ile Thr Phe Arg Glu Lys Asn Arg Gly
 115 120 125

Ser Lys Leu Phe Asn His Leu Ser Ala Val Ser Glu Ser Ile Gln Ala
 130 135 140

Leu Gly Trp Val Ala Met Ala Pro Lys Pro Gly Pro Tyr Val Lys Glu
 145 150 155 160

Met Asn Asp Ala Ala Met Phe Tyr Thr Asn Arg Val Leu Lys Glu Tyr
 165 170 175

Lys Asp Val Asp Lys Lys His Val Asp Trp Val Lys Ala Tyr Leu Ser
 180 185 190

Ile Trp Thr Glu Leu Gln Ala Tyr Ile Lys Glu Phe His Thr Thr Gly
 195 200 205
 Leu Ala Trp Ser Lys Thr Gly Pro Val Ala Lys Glu Leu Ser Gly Leu
 210 215 220
 Pro Ser Gly Pro Ser Ala Gly Ser Gly Pro Pro Pro Pro Pro Gly
 225 230 235 240
 Pro Pro Pro Pro Pro Val Ser Thr Ser Ser Gly Ser Asp Glu Ser Ala
 245 250 255
 Ser Arg Ser Ala Leu Phe Ala Gln Ile Asn Gln Gly Glu Ser Ile Thr
 260 265 270
 His Ala Leu Lys His Val Ser Asp Asp Met Lys Thr His Lys Asn Pro
 275 280 285
 Ala Leu Lys Ala Gln Ser Gly Pro Val Arg Ser Gly Pro Lys Pro Phe
 290 295 300
 Ser Ala Pro Lys Pro Gln Thr Ser Pro Ser Pro Lys Arg Ala Thr Lys
 305 310 315 320
 Lys Glu Pro Ala Val Leu Glu Leu Glu Gly Lys Lys Trp Arg Val Glu
 325 330 335
 Asn Gln Glu Asn Val Ser Asn Leu Val Ile Glu Asp Thr Glu Leu Lys
 340 345 350
 Gln Val Ala Tyr Ile Tyr Lys Cys Val Asn Thr Thr Leu Gln Ile Lys
 355 360 365
 Gly Lys Ile Asn Ser Ile Thr Val Asp Asn Cys Lys Lys Leu Gly Leu
 370 375 380
 Val Phe Asp Asp Val Val Gly Ile Val Glu Ile Ile Asn Ser Lys Asp
 385 390 395 400
 Val Lys Val Gln Val Met Gly Lys Val Pro Thr Ile Ser Ile Asn Lys
 405 410 415
 Thr Asp Gly Cys His Ala Tyr Leu Ser Lys Asn Ser Leu Asp Cys Glu
 420 425 430
 Ile Val Ser Ala Lys Ser Ser Glu Met Asn Val Leu Ile Pro Thr Glu
 435 440 445
 Gly Gly Asp Phe Asn Glu Phe Pro Val Pro Glu Gln Phe Lys Thr Leu
 450 455 460

530

Trp Asn Gly Gln Lys Leu Val Thr Thr Val Thr Glu Ile Ala Gly
 465 470 475

<210> 528

<211> 605

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 528

Asn His Xaa Arg Thr Arg Asp Gln Glu Ala Pro Xaa Asp Val Gln Val
 1 5 10 15

Arg Pro Glu Asp Thr Pro Ser Asp Leu Ser Val Ser Asn Ser Ser Val
 20 25 30

Ile Leu Glu Asn Thr Met Glu Asp His Ala Ala Glu Ala Ser Gly Lys
 35 40 45

531

Pro Leu Gly Glu Ile Ser Val Pro Leu Asp Ser Ser Leu Leu Cys Thr
 50 55 60
 Leu Ser Ser Glu Ser His Gln Glu Ala Ala Ser Asn Glu Asn Asp Lys
 65 70 75 80
 Lys Xaa Gly Asn Tyr Lys Ser Met Leu Arg Pro Glu Val Gly Thr Thr
 85 90 95
 Ser Gln Asp Ser Ala Leu Leu Asp Gln Glu Leu Tyr Asn Ser Phe His
 100 105 110
 Phe Trp Arg Thr Pro Leu Pro Glu Ile Asp Leu Asp Ile Glu Leu Glu
 115 120 125
 Gln Asn Ser Gly Gly Lys Pro Ser Pro Glu Gly Pro Glu Glu Glu Ser
 130 135 140
 Glu Gly Pro Val Pro Ser Ser Pro Asn Ile Thr Met Ala Thr Arg Lys
 145 150 155 160
 Glu Leu Glu Glu Met Ile Glu Asn Leu Glu Pro His Ile Asp Asp Pro
 165 170 175
 Asp Val Lys Ala Gln Val Glu Val Leu Ser Ala Ala Leu Arg Xaa Ser
 180 185 190
 Ser Leu Asp Ala His Glu Glu Thr Ile Ser Ile Glu Lys Arg Ser Asp
 195 200 205
 Leu Gln Asp Glu Leu Asp Ile Asn Glu Leu Pro Asn Cys Lys Ile Asn
 210 215 220
 Gln Glu Asp Ser Val Pro Leu Ile Ser Asp Ala Val Glu Asn Met Asp
 225 230 235 240
 Ser Thr Leu His Tyr Ile His Xaa Asp Ser Asp Leu Ser Asn Asn Ser
 245 250 255
 Ser Phe Ser Pro Asp Glu Glu Arg Arg Thr Lys Val Gln Asp Val Val
 260 265 270
 Pro Gln Ala Leu Leu Asp Gln Tyr Leu Ser Met Thr Asp Pro Ser Arg
 275 280 285
 Ala Gln Thr Val Asp Thr Glu Ile Ala Lys His Cys Ala Tyr Ser Leu
 290 295 300
 Pro Gly Val Ala Leu Thr Leu Gly Arg Gln Asn Trp His Cys Leu Arg
 305 310 315 320

532

Glu Thr Tyr Xaa Thr Leu Ala Ser Asp Met Gln Trp Lys Val Arg Arg	325	330	335
Thr Leu Ala Phe Ser Ile His Glu Leu Ala Val Ile Leu Gly Asp Gln	340	345	350
Leu Thr Ala Ala Asp Leu Val Pro Ile Phe Asn Gly Phe Leu Lys Asp	355	360	365
Leu Asp Glu Val Arg Ile Gly Val Leu Lys His Leu His Asp Phe Leu	370	375	380
Lys Leu Leu His Ile Asp Lys Arg Arg Glu Tyr Leu Tyr Gln Leu Gln	385	390	395
Glu Phe Leu Val Thr Asp Asn Ser Arg Asn Trp Arg Phe Arg Ala Glu	405	410	415
Leu Ala Glu Gln Leu Ile Leu Leu Leu Glu Leu Tyr Ser Pro Arg Asp	420	425	430
Val Tyr Asp Tyr Leu Arg Pro Ile Ala Leu Asn Leu Cys Ala Asp Lys	435	440	445
Val Ser Ser Val Arg Trp Ile Ser Tyr Lys Leu Val Ser Glu Met Val	450	455	460
Lys Lys Leu His Ala Ala Thr Pro Pro Thr Phe Gly Val Asp Leu Ile	465	470	475
Asn Glu Leu Val Glu Asn Phe Gly Arg Cys Pro Lys Trp Ser Gly Arg	485	490	495
Gln Ala Phe Val Phe Val Cys Gln Thr Val Ile Glu Asp Asp Cys Leu	500	505	510
Pro Met Asp Gln Phe Ala Val His Leu Met Pro His Leu Leu Thr Leu	515	520	525
Ala Asn Asp Arg Val Pro Asn Val Arg Val Leu Leu Ala Lys Thr Leu	530	535	540
Arg Gln Thr Leu Leu Glu Lys Asp Tyr Phe Leu Ala Ser Ala Ser Cys	545	550	555
His Gln Glu Ala Val Glu Gln Thr Ile Met Ala Leu Gln Met Asp Arg	565	570	575
Asp Ser Asp Val Lys Tyr Phe Ala Ser Ile His Pro Ala Ser Thr Lys	580	585	590

533

Ile Ser Glu Asp Ala Met Ser Thr Ala Ser Ser Thr Tyr
 595 600 605

<210> 529

<211> 179

<212> PRT

<213> Homo sapiens

<400> 529

His Tyr Arg Arg Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
 1 5 10 15

Thr His Ala Ser Glu Leu Gly Thr Ser Leu Ser Ala Met Arg Phe Leu
 20 25 30

Ala Ala Thr Phe Leu Leu Leu Ala Leu Ser Thr Ala Ala Gln Ala Glu
 35 40 45

Pro Val Gln Phe Lys Asp Cys Gly Ser Val Asp Gly Val Ile Lys Glu
 50 55 60

Val Asn Val Ser Pro Cys Pro Thr Gln Pro Cys Gln Leu Ser Lys Gly
 65 70 75 80

Gln Ser Tyr Ser Val Asn Val Thr Phe Thr Ser Asn Ile Gln Ser Lys
 85 90 95

Ser Ser Lys Ala Val Val His Gly Ile Leu Met Gly Val Pro Val Pro
 100 105 110

Phe Pro Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly Ile Asn Cys Pro
 115 120 125

Ile Gln Lys Asp Lys Thr Tyr Ser Tyr Leu Asn Lys Leu Pro Val Lys
 130 135 140

Ser Glu Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu Gln Asp
 145 150 155 160

Asp Lys Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln Ile Val
 165 170 175

Ser His Leu

<210> 530

<211> 168

534

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 530

Val Arg Ala Glu His Cys Ala Val Trp Glu Arg Asn Phe Glu Glu Thr
 1 5 10 15

Val Arg Trp Phe Trp Arg Leu Gly Ser Pro Arg Pro Val Gly Ser His
 20 25 30

Leu Thr Ser Val Lys Phe Leu Met Thr Ser Pro Glu Ile Ala Ser Leu
 35 40 45

Ser Trp Gly Gln Met Lys Val Lys Gly Ser Asn Thr Thr Tyr Lys Asp
 50 55 60

Cys Lys Val Trp Pro Gly Gly Ser Arg Thr Trp Asp Trp Arg Glu Thr
 65 70 75 80

Gly Thr Glu His Ser Pro Gly Val Gln Pro Ala Asp Val Lys Glu Val
 85 90 95

Val Glu Lys Gly Val Gln Thr Leu Val Ile Gly Arg Gly Met Ser Glu
 100 105 110

Ala Leu Lys Val Pro Ser Ser Thr Val Glu Tyr Leu Lys Lys His Gly
 115 120 125

Ile Asp Val Arg Val Leu Gln Thr Glu Gln Ala Val Lys Glu Tyr Asn
 130 135 140

Ala Leu Val Ala Lys Gly Ser Gly Trp Glu Val Ser Ser Ile Pro Pro
 145 150 155 160

Ala Asp Gly Ala Leu Arg Xaa Glu
 165

<210> 531

<211> 705

<212> PRT

<213> Homo sapiens

<400> 531

Glu Pro Arg Ala Arg Ala Thr Arg Arg Gly Met Ala Ala Thr Gly Thr

535

1	5	10	15
Ala Ala Ala Ala Ala Thr Gly Arg Leu Leu Leu Leu Leu Val Gly			
20	25	30	
Leu Thr Ala Pro Ala Leu Ala Leu Ala Gly Tyr Ile Glu Ala Leu Ala			
35	40	45	
Ala Asn Ala Gly Thr Gly Phe Ala Val Ala Glu Pro Gln Ile Ala Met			
50	55	60	
Phe Cys Gly Lys Leu Asn Met His Val Asn Ile Gln Thr Gly Lys Trp			
65	70	75	80
Glu Pro Asp Pro Thr Gly Thr Lys Ser Cys Phe Glu Thr Lys Glu Glu			
85	90	95	
Val Leu Gln Tyr Cys Gln Glu Met Tyr Pro Glu Leu Gln Ile Thr Asn			
100	105	110	
Val Met Glu Ala Asn Gln Arg Val Ser Ile Asp Asn Trp Cys Arg Arg			
115	120	125	
Asp Lys Lys Gln Cys Lys Ser Arg Phe Val Thr Pro Phe Lys Cys Leu			
130	135	140	
Val Gly Glu Phe Val Ser Asp Val Leu Leu Val Pro Glu Lys Cys Gln			
145	150	155	160
Phe Phe His Lys Glu Arg Met Glu Val Cys Glu Asn His Gln His Trp			
165	170	175	
His Thr Val Val Lys Glu Ala Cys Leu Thr Gln Gly Met Thr Leu Tyr			
180	185	190	
Ser Tyr Gly Met Leu Leu Pro Cys Gly Val Asp Gln Phe His Gly Thr			
195	200	205	
Glu Tyr Val Cys Cys Pro Gln Thr Lys Ile Ile Gly Ser Val Ser Lys			
210	215	220	
Glu Glu Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu Asp Glu Glu			
225	230	235	240
Glu Asp Tyr Asp Val Tyr Lys Ser Glu Phe Pro Thr Glu Ala Asp Leu			
245	250	255	
Glu Asp Phe Thr Glu Ala Ala Val Asp Glu Asp Asp Glu Asp Glu Glu			
260	265	270	
Glu Gly Glu Glu Val Val Glu Asp Arg Asp Tyr Tyr Asp Thr Phe			

536

275	280	285
Lys Gly Asp Asp Tyr Asn Glu Glu Asn Pro Thr Glu Pro Gly Ser Asp		
290	295	300
Gly Thr Met Ser Asp Lys Glu Ile Thr His Asp Val Lys Val Pro Pro		
305	310	315 320
Thr Pro Leu Pro Thr Asn Asp Val Asp Val Tyr Phe Glu Thr Ser Ala		
	325	330 335
Asp Asp Asn Glu His Ala Arg Phe Gln Lys Ala Lys Glu Gln Leu Glu		
	340	345 350
Ile Arg His Arg Asn Arg Met Asp Arg Val Lys Lys Glu Trp Glu Glu		
	355	360 365
Ala Glu Leu Gln Ala Lys Asn Leu Pro Lys Ala Glu Arg Gln Thr Leu		
	370	375 380
Ile Gln His Phe Gln Ala Met Val Lys Ala Leu Glu Lys Glu Ala Ala		
	385	390 395 400
Ser Glu Lys Gln Gln Leu Val Glu Thr His Leu Ala Arg Val Glu Ala		
	405	410 415
Met Leu Asn Asp Arg Arg Arg Met Ala Leu Glu Asn Tyr Leu Ala Ala		
	420	425 430
Leu Gln Ser Asp Pro Pro Arg Pro His Arg Ile Leu Gln Ala Leu Arg		
	435	440 445
Arg Tyr Val Arg Ala Glu Asn Lys Asp Arg Leu His Thr Ile Arg His		
	450	455 460
Tyr Gln His Val Leu Ala Val Asp Pro Glu Lys Ala Ala Gln Met Lys		
	465	470 475 480
Ser Gln Val Met Thr His Leu His Val Ile Glu Glu Arg Arg Asn Gln		
	485	490 495
Ser Leu Ser Leu Leu Tyr Lys Val Pro Tyr Val Ala Gln Glu Ile Gln		
	500	505 510
Glu Glu Ile Asp Glu Leu Leu Gln Glu Gln Arg Ala Asp Met Asp Gln		
	515	520 525
Phe Thr Ala Ser Ile Ser Glu Thr Pro Val Asp Val Arg Val Ser Ser		
	530	535 540
Glu Glu Ser Glu Glu Ile Pro Pro Phe His Pro Phe His Pro Phe Pro		

537

545 550 555 560
 Ala Leu Pro Glu Asn Glu Gly Ser Gly Val Gly Glu Gln Asp Gly Gly
 565 570 575
 Leu Ile Gly Ala Glu Glu Lys Val Ile Asn Ser Lys Asn Lys Val Asp
 580 585 590
 Glu Asn Met Val Ile Asp Glu Thr Leu Asp Val Lys Glu Met Ile Phe
 595 600 605
 Asn Ala Glu Arg Val Gly Gly Leu Glu Glu Glu Arg Glu Ser Val Gly
 610 615 620
 Pro Leu Arg Glu Asp Phe Ser Leu Ser Ser Ser Ala Leu Ile Gly Leu
 625 630 635 640
 Leu Val Ile Ala Val Ala Ile Ala Thr Val Ile Val Ile Ser Leu Val
 645 650 655
 Met Leu Arg Lys Arg Gln Tyr Gly Thr Ile Ser His Gly Ile Val Glu
 660 665 670
 Val Asp Pro Met Leu Thr Pro Glu Glu Arg His Leu Asn Lys Met Gln
 675 680 685
 Asn His Gly Tyr Glu Asn Pro Thr Tyr Lys Tyr Leu Glu Gln Met Gln
 690 695 700
 Ile
 705

<210> 532

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 532

Ser Arg Leu Pro Glu Pro Pro Gly Phe Leu Val Lys Phe Ala Glu Glu
 1 5 10 15

Asp Leu Ser Val Leu Thr Tyr Met Leu His Arg Thr Asn Glu Ser Leu
 20 25 30

538

Arg Gln Ser Phe Phe Thr Gln Gln Arg Leu Ile Phe Phe His Pro Leu
 35 40 45

Leu Gly Xaa Lys His Ser Cys Pro Ala Cys Leu His Phe Lys His Asp
 50 55 60

Gln Asn Cys Ala Ser Leu Gln Ile Thr Thr Asp Gln Gln Trp Gly Pro
 65 70 75 80

Ala Ser

<210> 533
 <211> 283
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 533
 Lys Arg Phe Leu Lys Arg Ile Arg Asp Leu Gly Glu Gly His Phe Gly
 1 5 10 15

Lys Val Glu Leu Cys Arg Tyr Asp Pro Glu Xaa Xaa Asn Thr Gly Glu
 20 25 30

Gln Val Ala Val Lys Ser Leu Lys Pro Glu Ser Gly Gly Asn His Ile
 35 40 45

Ala Asp Leu Lys Lys Glu Ile Glu Ile Leu Arg Asn Leu Tyr His Glu
 50 55 60

Asn Ile Val Lys Tyr Lys Gly Ile Cys Thr Glu Asp Gly Gly Asn Gly
 65 70 75 80

Ile Lys Leu Ile Met Glu Phe Leu Pro Ser Gly Ser Leu Lys Glu Tyr
 85 90 95

Leu Pro Lys Asn Lys Asn Lys Ile Asn Leu Lys Gln Gln Leu Lys Tyr
 100 105 110

539

Ala Val Gln Ile Cys Lys Gly Met Asp Tyr Leu Gly Ser Arg Gln Tyr
 115 120 125
 Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Glu Ser Glu His
 130 135 140
 Gln Val Lys Ile Gly Asp Phe Gly Leu Thr Lys Ala Ile Glu Thr Asp
 145 150 155 160
 Lys Glu Tyr Tyr Thr Val Lys Asp Asp Arg Asp Ser Pro Val Phe Trp
 165 170 175
 Tyr Ala Pro Glu Cys Leu Met Gln Ser Lys Phe Tyr Ile Ala Ser Asp
 180 185 190
 Val Trp Ser Phe Gly Val Thr Leu His Glu Leu Leu Thr Tyr Cys Asp
 195 200 205
 Ser Asp Ser Ser Pro Met Ala Leu Phe Leu Lys Met Ile Gly Pro Thr
 210 215 220
 His Gly Gln Met Thr Val Thr Arg Leu Val Asn Thr Leu Lys Glu Gly
 225 230 235 240
 Lys Arg Leu Pro Cys Pro Pro Asn Cys Pro Asp Glu Val Tyr Gln Leu
 245 250 255
 Met Arg Lys Cys Trp Glu Phe Gln Pro Ser Asn Arg Thr Ser Phe Gln
 260 265 270
 Asn Leu Ile Glu Gly Phe Glu Ala Leu Leu Lys
 275 280

<210> 534

<211> 246

<212> PRT

<213> Homo sapiens

<400> 534

Phe Arg Ala Glu Arg Glu Glu Asn Phe Phe Leu Ala Trp Ala Pro Cys
 1 5 10 15
 Arg Ser Val Cys Gln Pro Ser Ser Pro Ala Tyr Gln Cys Arg Ala Leu
 20 25 30
 Pro Thr Pro Pro Pro Ala Pro Pro Val Ser Ala Met Ala Lys Ala Tyr
 35 40 45
 Asp His Leu Phe Lys Leu Leu Leu Ile Gly Asp Ser Gly Val Gly Lys

540

50 55 60
 Thr Cys Leu Ile Ile Arg Phe Ala Glu Asp Asn Phe Asn Asn Thr Tyr
 65 70 75 80
 Ile Ser Thr Ile Gly Ile Asp Phe Lys Ile Arg Thr Val Asp Ile Glu
 85 90 95
 Gly Lys Lys Ile Lys Leu Gln Val Trp Asp Thr Ala Gly Gln Glu Arg
 100 105 110
 Phe Lys Thr Ile Thr Thr Ala Tyr Tyr Arg Gly Ala Met Gly Ile Ile
 115 120 125
 Leu Val Tyr Asp Ile Thr Asp Glu Lys Ser Phe Glu Asn Ile Gln Asn
 130 135 140
 Trp Met Lys Ser Ile Lys Glu Asn Ala Ser Ala Gly Val Glu Arg Leu
 145 150 155 160
 Leu Leu Gly Asn Lys Cys Asp Met Glu Ala Lys Arg Lys Val Gln Lys
 165 170 175
 Glu Gln Ala Asp Lys Leu Ala Arg Glu His Gly Ile Arg Phe Phe Glu
 180 185 190
 Thr Ser Ala Lys Ser Ser Met Asn Val Asp Glu Ala Phe Ser Ser Leu
 195 200 205
 Ala Arg Asp Ile Leu Leu Lys Ser Gly Gly Arg Arg Ser Gly Asn Gly
 210 215 220
 Asn Lys Pro Pro Ser Thr Asp Leu Lys Thr Cys Asp Lys Lys Asn Thr
 225 230 235 240
 Asn Lys Cys Ser Leu Gly
 245

<210> 535

<211> 276

<212> PRT

<213> Homo sapiens

<400> 535

Pro Lys Val Phe Phe Asn Ile Leu Glu Glu Ala Arg Glu Leu Ala Leu
 1 5 10 15

Gln Gln Glu Glu Gly Lys Thr Val Met Tyr Thr Ala Val Gly Ser Glu
 20 25 30

541

Trp Arg Pro Phe Gly Tyr Pro Arg Arg Arg Gln Pro Leu Asn Ser Val
 35 40 45

Val Leu Gln Gln Gly Leu Ala Asp Arg Ile Val Arg Asp Val Gln Glu
 50 55 60

Phe Ile Asp Asn Pro Lys Trp Tyr Thr Asp Arg Gly Ile Pro Tyr Arg
 65 70 75 80

Arg Gly Tyr Leu Leu Tyr Gly Pro Pro Gly Cys Gly Lys Ser Ser Phe
 85 90 95

Ile Thr Ala Leu Ala Gly Glu Leu Glu His Ser Ile Cys Leu Leu Ser
 100 105 110

Leu Thr Asp Ser Ser Leu Ser Asp Asp Arg Leu Asn His Leu Leu Ser
 115 120 125

Val Ala Pro Gln Gln Ser Leu Val Leu Leu Glu Asp Val Asp Ala Ala
 130 135 140

Phe Leu Ser Arg Asp Leu Ala Val Glu Asn Pro Val Lys Tyr Gln Gly
 145 150 155 160

Leu Gly Arg Leu Thr Phe Ser Gly Leu Leu Asn Ala Leu Asp Gly Val
 165 170 175

Ala Ser Thr Glu Ala Arg Ile Val Phe Met Thr Thr Asn His Val Asp
 180 185 190

Arg Leu Asp Pro Ala Leu Ile Arg Pro Gly Arg Val Asp Leu Lys Glu
 195 200 205

Tyr Val Gly Tyr Cys Ser His Trp Gln Leu Thr Gln Met Phe Gln Arg
 210 215 220

Phe Tyr Pro Gly Gln Ala Pro Ser Leu Ala Glu Asn Phe Ala Glu His
 225 230 235 240

Val Leu Arg Ala Thr Asn Gln Ile Ser Pro Ala Gln Val Gln Gly Tyr
 245 250 255

Phe Met Leu Tyr Lys Asn Asp Pro Val Gly Ala Ile His Asn Ala Glu
 260 265 270

Ser Leu Arg Arg
 275

542

<210> 536

<211> 72

<212> PRT

<213> Homo sapiens

<400> 536

```

Ile Lys Cys Ser Thr Met Cys Asn Asp Cys Lys Phe Ser Lys Ile Leu
 1              5              10              15

Gln Pro Phe His Glu Cys Phe Thr Ile Gln His Ser Ile Tyr Tyr Lys
      20              25              30

Thr Pro Phe Leu Tyr Pro Tyr Thr Ser Gly Val Ala Val Asn Ile Tyr
      35              40              45

Tyr Asp Ile Tyr Phe Asn Gln Asn Val Thr His Ile Lys Cys Leu Phe
 50              55              60

Phe Lys Met Asn Val Leu Cys Phe
 65              70

```

<210> 537

<211> 241

<212> PRT

<213> Homo sapiens

<400> 537

```

Ala Tyr Ile Ser Cys Pro Ser Ser Thr Val Asn Lys Trp His Ala Cys
 1              5              10              15

Val Leu Trp Pro Phe Tyr Leu Glu Tyr Ser Leu Leu Ala Glu Phe Thr
      20              25              30

Leu Val Val Lys Gln Lys Leu Pro Gly Val Tyr Val Gln Pro Ser Tyr
      35              40              45

Arg Ser Ala Leu Met Trp Phe Gly Val Ile Phe Ile Arg His Gly Leu
 50              55              60

Tyr Gln Asp Gly Val Phe Lys Phe Thr Val Tyr Ile Pro Asp Asn Tyr
 65              70              75              80

Pro Asp Gly Asp Cys Pro Arg Leu Val Phe Asp Ile Pro Val Phe His
      85              90              95

Pro Leu Val Asp Pro Thr Ser Gly Glu Leu Asp Val Lys Arg Ala Phe
      100              105              110

Ala Lys Trp Arg Arg Asn His Asn His Ile Trp Gln Val Leu Met Tyr

```

543

115	120	125
Ala Arg Arg Val Phe Tyr Lys Ile Asp Thr Ala Ser Pro Leu Asn Pro		
130	135	140
Glu Ala Ala Val Leu Tyr Glu Lys Asp Ile Gln Leu Phe Lys Ser Lys		
145	150	155 160
Val Val Asp Ser Val Lys Val Cys Thr Ala Arg Leu Phe Asp Gln Pro		
165	170	175
Lys Ile Glu Asp Pro Tyr Ala Ile Ser Phe Ser Pro Trp Asn Pro Ser		
180	185	190
Val His Asp Glu Ala Arg Glu Lys Met Leu Thr Gln Lys Lys Lys Pro		
195	200	205
Glu Glu Gln His Asn Lys Ser Val His Val Ala Gly Leu Ser Trp Val		
210	215	220
Lys Pro Gly Ser Val Gln Pro Phe Ser Lys Glu Glu Lys Thr Val Ala		
225	230	235 240

Thr

<210> 538

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

544

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 538

Phe Tyr Met Ala Val Ile His Gly Val Glu Ala Val Arg Lys Glu Ser
1 5 10 15

Ser Thr Ser Xaa Leu Ser Xaa Val Ser Ser Asp Cys Xaa Glu Lys Trp
20 25 30

Asp Cys Leu Xaa His Gly Ile Cys Gly Leu Lys Ser Ser Pro Xaa
35 40 45

<210> 539

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 539

Xaa Val Phe Val Asn Lys Cys Ile Cys Ile Thr Gln Ser Cys Xaa Ile

545

```

      1             5             10             15
Gln Asn Tyr  Lys Gln Lys Leu Cys Lys Thr Lys Leu Lys Ala Ala Cys
      20             25             30
Leu Leu Phe Phe Val Pro Cys Pro Ile Thr Thr Ser Xaa Ser Lys Asn
      35             40             45
Glu Met Leu Leu Leu Xaa Xaa Leu Met Phe Phe Arg Phe Glu Gly Phe
      50             55             60
Thr Thr Ser Thr Pro Lys Thr Tyr Phe Ser
      65             70

```

<210> 540

<211> 195

<212> PRT

<213> Homo sapiens

<400> 540

```

Ser Thr Ala Gln Gly Asn Leu Leu Thr Val Phe Ile Gln Pro Arg Ala
  1             5             10             15
Ser Met Ser Gly Gly Lys Tyr Val Asp Ser Glu Gly His Leu Tyr Thr
      20             25             30
Val Pro Ile Arg Glu Gln Gly Asn Ile Tyr Lys Pro Asn Asn Lys Ala
      35             40             45
Met Ala Asp Glu Leu Ser Glu Lys Gln Val Tyr Asp Ala His Thr Lys
      50             55             60
Glu Ile Asp Leu Val Asn Arg Asp Pro Lys His Leu Asn Asp Asp Val
      65             70             75             80
Val Lys Ile Asp Phe Glu Asp Val Ile Ala Glu Pro Glu Gly Thr His
      85             90             95
Ser Phe Asp Gly Ile Trp Lys Ala Ser Phe Thr Thr Phe Thr Val Thr
      100            105            110
Lys Tyr Trp Phe Tyr Arg Leu Leu Ser Ala Leu Phe Gly Ile Pro Met
      115            120            125
Ala Leu Ile Trp Gly Ile Tyr Phe Ala Ile Leu Ser Phe Leu His Ile
      130            135            140
Trp Ala Val Val Pro Cys Ile Lys Ser Phe Leu Ile Glu Ile Gln Cys
      145            150            155            160

```

546

Ile Ser Arg Val Tyr Ser Ile Tyr Val His Thr Val Cys Asp Pro Leu
165 170 175

Phe Glu Ala Val Gly Lys Ile Phe Ser Asn Val Arg Ile Asn Leu Gln
180 185 190

Lys Glu Ile
195

<210> 541

<211> 233

<212> PRT

<213> Homo sapiens

<400> 541

Leu Pro Leu Glu Val Ala Met Ala Gly Leu Arg Arg Glu Tyr Ala Phe
1 5 10 15

Lys Ala Ile Asn Gln Gly Gly Leu Thr Ser Val Ala Val Arg Gly Lys
20 25 30

Asp Cys Ala Val Ile Val Thr Gln Lys Lys Val Pro Asp Lys Leu Leu
35 40 45

Asp Ser Ser Thr Val Thr His Leu Phe Lys Ile Thr Glu Asn Ile Gly
50 55 60

Cys Val Met Thr Gly Met Thr Ala Asp Ser Arg Ser Gln Val Gln Arg
65 70 75 80

Ala Arg Tyr Glu Ala Ala Asn Trp Lys Tyr Lys Tyr Gly Tyr Glu Ile
85 90 95

Pro Val Asp Met Leu Cys Lys Arg Ile Ala Asp Ile Ser Gln Val Tyr
100 105 110

Thr Gln Asn Ala Glu Met Arg Pro Leu Gly Cys Cys Met Ile Leu Ile
115 120 125

Gly Ile Asp Glu Glu Gln Gly Pro Gln Val Tyr Lys Cys Asp Pro Ala
130 135 140

Gly Tyr Tyr Cys Gly Phe Lys Ala Thr Ala Ala Gly Val Lys Gln Thr
145 150 155 160

Glu Ser Thr Ser Phe Leu Glu Lys Lys Val Lys Lys Lys Phe Asp Trp
165 170 175

547

Thr Phe Glu Gln Thr Val Glu Thr Ala Ile Thr Cys Leu Ser Thr Val
 180 185 190
 Leu Ser Ile Asp Phe Lys Pro Ser Glu Ile Glu Val Gly Val Val Thr
 195 200 205
 Val Glu Asn Pro Lys Phe Arg Ile Leu Thr Glu Ala Glu Ile Asp Ala
 210 215 220
 His Leu Val Ala Leu Ala Glu Arg Asp
 225 230

<210> 542
 <211> 235
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (215)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 542
 Thr Leu Gln Pro Pro Thr Gly Ile Pro Ser Thr Leu Pro Leu Cys Thr
 1 5 10 15

Ile Ser Thr Leu Trp Ala Pro Thr Lys Tyr Leu Ser Ala Ile Trp Ala
 20 25 30

Val Gly Gln Ile Ile Gln Asp Tyr Asp Ser Asp Lys Met Phe Pro Ala
 35 40 45

Leu Gly Phe Gly Ala Gln Leu Pro Pro Asp Trp Lys Val Ser His Glu
 50 55 60

Phe Ala Ile Asn Phe Asn Pro Thr Asn Pro Phe Cys Ser Gly Val Asp
 65 70 75 80

Gly Ile Ala Gln Ala Tyr Ser Ala Cys Leu Pro His Ile Arg Phe Tyr

548

	85		90		95
Gly Pro Thr Asn Phe Ser Pro Ile Val Asn His Val Ala Arg Phe Ala					
	100		105		110
Ala Gln Ala Thr Gln Gln Arg Thr Ala Thr Xaa Tyr Phe Ile Leu Leu					
	115		120		125
Ile Ile Thr Asp Gly Val Ile Ser Asp Met Glu Glu Thr Arg His Ala					
	130		135		140
Gly Cys Arg Leu Pro Ser Cys Pro Cys Pro Ser Ser Ser Trp Ala Trp					
	145		150		155
Ala Met Arg Thr Ser Leu Pro Trp Ser Ser Trp Met Gly Thr Ala Ala					
	165		170		175
Cys Cys Ala Ser His Thr Gly Glu Gly Gly Ser Pro Arg Tyr Cys Gly					
	180		185		190
Ile Arg Ser Leu Phe Glu Ile Ser Ala Lys Gln Gln Lys Arg Thr Trp					
	195		200		205
Pro Lys Leu Cys Trp Xaa Xaa Trp Pro Gln Gln Leu Leu His Tyr Phe					
	210		215		220
Lys His Lys Lys Leu Ala Pro Gln Gln Ile Arg					
	225		230		235

<210> 543

<211> 73

<212> PRT

<213> Homo sapiens

<400> 543

Lys His Tyr Gln Val Pro Lys Pro Ile Trp Leu Asn Gln Gln Cys Thr					
1		5		10	15
Glu Ile Leu Val Phe Thr Ser Lys Ala Arg Glu Pro Arg Gly Gly Gly					
	20		25		30
Glu Leu Glu Glu Gly Glu Ile Met Gly Arg Gly Trp Arg Leu Pro Glu					
	35		40		45
Leu Ala Arg Gly Pro Thr Phe Asp Asn Ser Leu Thr Lys Ser Ile Phe					
	50		55		60
Phe Phe Phe Phe Trp Glu Gly Pro Leu					
	65		70		

549

<210> 544
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 544
Ala Trp Thr Glu Ser Ile His Ser Asp His Leu Leu Ser Leu Tyr Thr
1 5 10 15
Glu Asn Lys Thr Ser Ser Thr His Pro Ile Arg Phe Phe Cys Leu Thr
20 25 30
Phe Lys Cys Pro Cys Trp Pro Phe Thr Ala Val Pro Arg His Gln Ala
35 40 45
Ser Cys His Ile Ser His Ser Lys Gly Phe Xaa Thr Ile Ser Ser Cys
50 55 60

550

His Phe Leu Lys Lys Thr Ile Pro Lys Leu Lys Leu Xaa Ile Ser Val
 65 70 75 80

Xaa Ser Cys Val Cys Gln Xaa Leu Gly Phe Xaa Trp Lys Val Pro Lys
 85 90 95

Thr Lys Ala Thr Pro Xaa
 100

<210> 545

<211> 115

<212> PRT

<213> Homo sapiens

<400> 545

Phe Arg Phe Leu Ser Asp Cys Gly Val Phe Ala Glu Gly His Ile Glu
 1 5 10 15

Leu Gln Val Glu Ser Gly Val Pro Leu Gly Phe Ser Thr Met Ala Glu
 20 25 30

Asp Met Glu Thr Lys Ile Lys Asn Tyr Lys Thr Ala Pro Phe Asp Ser
 35 40 45

Arg Phe Pro Asn Gln Asn Gln Thr Arg Asn Cys Trp Gln Asn Tyr Leu
 50 55 60

Asp Phe His Arg Cys Gln Lys Ala Met Thr Ala Lys Gly Gly Asp Ile
 65 70 75 80

Ser Val Cys Glu Trp Tyr Gln Arg Val Tyr Gln Ser Leu Cys Pro Thr
 85 90 95

Ser Trp Val Thr Asp Trp Asp Glu Gln Arg Ala Glu Gly Thr Phe Pro
 100 105 110

Gly Lys Ile
 115

<210> 546

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

551

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 546

Pro Ser Gly Cys Pro Ile Pro Xaa Pro Trp Xaa Ile Ser Val Val Ser
1 5 10 15

Ala Cys Xaa Met Gly Asp Pro His Pro Gln Cys Pro Ser Pro Ser Trp
20 25 30

Gly Pro Leu Thr Leu His Pro Leu Pro Phe Pro Pro His Leu Pro Gly
35 40 45

Glu Lys Leu Asp Met Gly Pro Gly Glu Gly Ser Trp Pro Glu Glu Asp
50 55 60

Pro Phe Pro Val Ala Leu Glu Gly Gly Gly Val Ala Gly Ala Pro Thr
65 70 75 80

His Ser Pro Ser Leu Gln Thr Pro Asn Pro Gln Ser Val Phe Glu Pro
85 90 95

Pro Arg Ser Pro His Ala Pro Ala His Ala Pro Ser Val Asn Pro Trp
100 105 110

<210> 547

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

552

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 547

Gly	Leu	Ser	Glu	Ser	Ala	Pro	Ser	Arg	Leu	Val	Gly	Ala	Gln	Pro	Ser
1				5					10					15	

Thr	Gly	Val	Pro	Leu	Val	Thr	Gly	Tyr	Thr	Thr	Tyr	Xaa	Ala	His	His
			20					25					30		

Ser	Ala	Phe	Ser	Gln	Met	Val	Xaa	Ser	Phe	Tyr	Tyr	Gly	Gly	Lys	Leu
		35					40					45			

Val	Gly	Gln	Ala	Thr	Thr	Thr	Cys	Pro	Glu	Gly	Cys	Arg	Leu	Ser	Leu
	50					55					60				

Ser	Gln	Pro	Gly	Leu	Pro	Gly	Thr	Lys	Leu	Tyr	Gly	Pro	Glu	Gly	Leu
65					70					75					80

Glu	Leu	Val	Arg	Phe	Pro	Pro	Ala	Asp	Ala	Ile	Pro	Ser	Glu	Arg	Gln
			85						90					95	

Arg	Gln	Val	Thr	Arg	Asn	Cys	Ser	Gly	Thr	Trp	Ser	Ala	Gly	Cys	Cys
		100						105					110		

Cys	Thr	Ala	Ala	Gly	Xaa	Ala	Cys	Ser	Ser	Ser	Gly	Cys	Xaa	Arg	Ala
		115					120					125			

Ala	Cys	Ser	Xaa	Ala	Ala	Thr	Val	Gly	Val	Gln	Arg	Gln	Ala	Gln	Gln
	130					135						140			

553

Ala Gly Ala Asp Glu Val Val Gln Val Phe Asp Thr Ser Gln Phe Phe
 145 150 155 160

Arg Glu Leu Gln Gln Phe Tyr Asn Ser Gln Gly Arg Leu Pro Asp Gly
 165 170 175

Xaa Val Val Leu Cys Phe Gly Glu Glu Phe Arg Ile Trp Pro Pro Cys
 180 185 190

Ala Pro Asn Ser Phe Ser Cys Arg Leu Ser Ser Cys Met Ser Gly Asn
 195 200 205

Trp Gln Lys Arg Leu Gly Arg Ala Val Glu Pro Ala Leu
 210 215 220

<210> 548

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 548

Lys Gly Phe Phe Pro Gln Leu Arg Arg Glu Ala Asn Leu Val Ala Thr
 1 5 10 15

Cys Leu Pro Val Arg Ala Ser Leu Pro His Arg Leu Asn Met Leu Arg
 20 25 30

Gly Pro Gly Pro Gly Leu Leu Leu Ala Val Xaa Cys Leu Gly Thr
 35 40 45

554

Ala Val Pro Ser Thr Gly Ala Ser Lys Ser Lys Arg Gln Ala Gln Gln
 50 55 60

Met Val Gln Pro Gln Ser Pro Val Ala Val Ser Gln Ser Lys Pro Gly
 65 70 75 80

Cys Tyr Asp Asn Gly Lys His Tyr Gln Ile Asn Gln Gln Trp Glu Arg
 85 90 95

Thr Tyr Leu Gly Asn Ala Leu Val Cys Thr Cys Tyr Gly Gly Ser Arg
 100 105 110

Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu Glu Thr Cys Phe Asp
 115 120 125

Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp Thr Tyr Glu Arg Pro
 130 135 140

Lys Asp Ser Met Ile Trp Asp Cys Thr Cys Ile Gly Ala Gly Arg Gly
 145 150 155 160

Arg Ile Ser Cys Thr Ile Ala Asn Arg Cys His Glu Gly Gly Gln Ser
 165 170 175

Tyr Lys Ile Gly Asp Thr Trp Arg Arg Pro His Glu Thr Gly Gly Tyr
 180 185 190

Met Leu Glu Cys Val Cys Leu Gly Asn Gly Lys Gly Xaa Trp Thr Cys
 195 200 205

Lys Pro Ile Xaa Glu Lys Cys Leu Ile Met Leu Leu Gly Leu Leu Cys
 210 215 220

Gly Xaa Arg Thr Trp Glu Lys
 225 230

<210> 549

<211> 82

<212> PRT

<213> Homo sapiens

<400> 549

Glu Ala Gly Thr Pro Gly Ser Gln Thr Arg Ala Asp Pro Ile Val Lys
 1 5 10 15

Tyr Phe Tyr Ile Phe Ser Phe Pro Gln Lys Arg Ser Leu Thr Tyr Cys
 20 25 30

555

Phe Ile Asp Ser Leu Ala Val Arg Gly Ser Phe Pro Glu Val Gly Arg
 35 40 45
 Arg Gly Ser Gly Val Ala Val Ser Cys Leu Pro Ser Gln Val Val Thr
 50 55 60
 Leu Val Met Asp Cys Leu Ser Pro Ser Phe His Pro Gly Glu Thr Val
 65 70 75 80

Gln Ile

<210> 550
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 550
 Gly Leu Val Gly Glu Arg Thr Gln Glu Arg Gly Val Gln Glu Ser Arg
 1 5 10 15
 Leu Ser Glu Leu Cys Gly Val Cys Gly Trp Gln Gly Gln Pro Leu Gln
 20 25 30
 Pro Leu Lys Thr Leu Lys Ala Arg Asp Ser Trp Arg Arg Leu Gly Leu
 35 40 45
 Pro Gly Ser Ser Ser Lys Tyr Pro Gly Ala Ser Glu Leu Pro Gly Cys
 50 55 60
 Tyr Met Ala Gln Gly Thr Gln Val Gln Gly Arg Thr Gly Lys Thr Arg
 65 70 75 80
 Tyr Pro Met Cys Lys Val Lys Thr Leu Gly Ser Leu Leu Asn Asp Glu
 85 90 95
 Glu Phe Lys Thr Val Thr Ala Leu Arg His Pro Trp Gly Gln Arg Ser
 100 105 110

Ala

<210> 551
 <211> 305
 <212> PRT
 <213> Homo sapiens

556

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 551

Pro Ala Ile Ala Met Ala Arg Gly Lys Ala Lys Glu Glu Gly Ser Trp
 1 5 10 15

Lys Lys Phe Ile Trp Asn Ser Glu Lys Lys Glu Phe Leu Gly Arg Thr
 20 25 30

Gly Gly Ser Trp Phe Lys Ile Leu Leu Phe Tyr Val Ile Phe Tyr Gly
 35 40 45

Cys Leu Ala Gly Ile Phe Ile Gly Thr Ile Gln Val Met Leu Leu Thr
 50 55 60

Ile Ser Glu Phe Lys Pro Thr Tyr Gln Asp Arg Val Ala Pro Pro Gly
 65 70 75 80

Leu Thr Gln Ile Pro Gln Ile Gln Lys Thr Glu Ile Ser Phe Arg Pro
 85 90 95

Asn Asp Pro Lys Ser Tyr Glu Ala Tyr Val Leu Asn Ile Val Arg Phe
 100 105 110

Leu Glu Lys Tyr Lys Asp Ser Ala Gln Arg Asp Asp Met Ile Phe Glu
 115 120 125

Asp Cys Gly Asp Val Pro Ser Glu Pro Lys Glu Arg Gly Asp Phe Asn
 130 135 140

His Glu Arg Gly Glu Arg Lys Val Cys Arg Phe Lys Leu Glu Trp Leu
 145 150 155 160

Gly Asn Cys Ser Gly Leu Asn Asp Glu Thr Tyr Gly Tyr Lys Glu Gly
 165 170 175

Lys Pro Cys Ile Ile Ile Lys Leu Asn Arg Val Leu Gly Phe Lys Pro
 180 185 190

Lys Pro Pro Lys Asn Glu Ser Leu Glu Thr Tyr Pro Val Met Lys Tyr
 195 200 205

Asn Pro Asn Val Leu Pro Val Gln Cys Thr Gly Lys Arg Asp Glu Asp
 210 215 220

Lys Asp Lys Val Gly Asn Val Glu Tyr Phe Gly Leu Gly Asn Ser Pro
 225 230 235 240

557

Gly Phe Pro Leu Gln Tyr Tyr Pro Tyr Tyr Gly Lys Leu Leu Gln Pro
 245 250 255
 Lys Tyr Leu Gln Pro Leu Leu Ala Val Gln Phe Thr Asn Leu Thr Met
 260 265 270
 Asp Thr Glu Ile Arg Ile Glu Cys Lys Ala Tyr Gly Glu Asn Ile Gly
 275 280 285
 Tyr Ser Glu Lys Asp Arg Phe Gln Gly Arg Phe Xaa Val Cys Gly Ser
 290 295 300
 Phe
 305

<210> 552
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 552
 Ala Pro Arg Gly Cys Ser Met Pro His Arg Lys Lys Lys Pro Phe Ile
 1 5 10 15
 Glu Lys Lys Lys Ala Val Ser Phe His Leu Val His Arg Ser Gln Arg
 20 25 30
 Asp Pro Leu Ala Ala Asp Glu Ser Ala Pro Gln Arg Val Leu Leu Pro
 35 40 45
 Thr Gln Lys Ile Asp Asn Glu Glu Arg Arg Ala Glu Gln Arg Lys Tyr
 50 55 60
 Gly Val Phe Phe Asp Asp Asp Tyr Asp Tyr Leu Gln His Leu Lys Glu
 65 70 75 80
 Pro Ser Gly Pro Ser Glu Leu Ile Pro Ser Ser Thr Phe Ser Ala His
 85 90 95
 Asn Arg Arg Glu Glu Lys Glu Glu Thr Leu
 100 105

<210> 553
 <211> 235
 <212> PRT
 <213> Homo sapiens

558

<400> 553

```

His Thr Leu Ser Arg Trp Thr Lys His Ser Ile Pro Arg Trp Asn Asp
 1           5           10           15

Ala Arg Thr Asp Asp Thr Trp His Ser Glu Leu Asp Met Arg Lys Ile
      20           25           30

Gly Gln Ala Arg Asn Thr Leu Met Asp Met Arg Leu Ser Gln Val Ser
      35           40           45

Asp Ser Val Ser Gly Gln Thr Val Val Asp Pro Lys Gly Tyr Leu Thr
      50           55           60

Asp Leu Asn Ser Met Ile Pro Thr His Gly Gly Asp Ile Asn Asp Ile
      65           70           75           80

Lys Lys Ala Arg Leu Leu Lys Ser Val Arg Glu Thr Asn Pro His
      85           90           95

His Pro Pro Ala Trp Ile Ala Ser Ala Arg Leu Glu Glu Val Thr Gly
      100           105           110

Lys Leu Gln Val Ala Arg Asn Leu Ile Met Lys Gly Thr Glu Met Cys
      115           120           125

Pro Lys Ser Glu Asp Val Trp Leu Glu Ala Ala Arg Leu Gln Pro Gly
      130           135           140

Asp Thr Ala Lys Ala Val Val Ala Gln Ala Val Arg His Leu Pro Gln
      145           150           155           160

Ser Val Arg Ile Tyr Ile Arg Ala Ala Glu Leu Glu Thr Asp Ile Arg
      165           170           175

Ala Lys Lys Arg Val Leu Arg Lys Ala Leu Glu His Val Pro Asn Ser
      180           185           190

Val Arg Leu Trp Lys Ala Ala Val Glu Leu Glu Glu Pro Glu Asp Ala
      195           200           205

Arg Ile Met Leu Ser Arg Ala Val Glu Cys Cys Pro Thr Ser Val Glu
      210           215           220

Leu Trp Leu Cys Ser Gly Lys Ala Gly Asp Leu
      225           230           235

```

<210> 554

<211> 61

<212> PRT

559

<213> Homo sapiens

<400> 554

```

Leu Trp Phe Cys His Asn Ile Arg Ile Tyr Lys His Phe Lys Ser Ile
 1             5             10             15

Leu Phe Phe Cys Phe His Phe Arg Asn Ile His Val Leu Asn Lys Ser
      20             25             30

Cys Val Leu Ile Ser Leu Leu Cys Asn Asn Leu Val Cys Leu Thr Phe
      35             40             45

Leu Thr Phe Ile Ser Asn Ile Cys Phe Ile Ile Glu Gln
 50             55             60

```

<210> 555

<211> 684

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (683)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 555

```

Arg Gly Lys Gly Phe Lys Glu Phe Phe Leu Gly Val Cys Gln Thr Phe
 1             5             10             15

Ile Pro Cys Leu Cys Ala Glu Gly Ile Gln Leu Gln Phe Phe Cys Ser
      20             25             30

Gly Ser Gly Ser Ser Pro Leu Leu Lys Asp Leu Glu Ser Met Lys Thr
      35             40             45

Gly Leu Phe Phe Leu Cys Leu Leu Gly Thr Ala Ala Ala Ile Pro Thr
 50             55             60

Asn Ala Arg Leu Leu Ser Asp His Ser Lys Pro Thr Ala Glu Thr Val
 65             70             75             80

Ala Pro Asp Asn Thr Ala Ile Pro Ser Leu Arg Ala Glu Ala Glu Glu
      85             90             95

```


560

Asn	Glu	Lys	Glu	Thr	Ala	Val	Ser	Thr	Glu	Asp	Asp	Ser	His	His	Lys	100	105	110	
Ala	Glu	Lys	Ser	Ser	Val	Leu	Lys	Ser	Lys	Glu	Glu	Ser	His	Glu	Gln	115	120	125	
Ser	Ala	Glu	Gln	Gly	Lys	Ser	Ser	Ser	Gln	Glu	Leu	Gly	Leu	Lys	Asp	130	135	140	
Gln	Glu	Asp	Ser	Asp	Gly	Xaa	Leu	Ser	Val	Asn	Leu	Glu	Tyr	Ala	Pro	145	150	155	160
Thr	Glu	Gly	Thr	Leu	Asp	Ile	Lys	Glu	Asp	Met	Ser	Glu	Pro	Gln	Glu	165	170	175	
Lys	Lys	Leu	Ser	Glu	Asn	Thr	Asp	Phe	Leu	Ala	Pro	Gly	Val	Ser	Ser	180	185	190	
Phe	Thr	Asp	Ser	Asn	Gln	Gln	Glu	Ser	Ile	Thr	Lys	Arg	Glu	Glu	Asn	195	200	205	
Gln	Glu	Gln	Pro	Arg	Asn	Tyr	Ser	His	His	Gln	Leu	Asn	Arg	Ser	Ser	210	215	220	
Lys	His	Ser	Gln	Gly	Leu	Arg	Asp	Gln	Gly	Asn	Gln	Glu	Gln	Asp	Pro	225	230	235	240
Asn	Ile	Ser	Asn	Gly	Glu	Glu	Glu	Glu	Lys	Glu	Pro	Gly	Glu	Val		245	250	255	
Gly	Thr	His	Asn	Asp	Asn	Gln	Glu	Arg	Lys	Thr	Glu	Leu	Pro	Arg	Glu	260	265	270	
His	Ala	Asn	Ser	Lys	Gln	Glu	Glu	Asp	Asn	Thr	Gln	Ser	Asp	Asp	Ile	275	280	285	
Leu	Glu	Glu	Ser	Asp	Gln	Pro	Thr	Gln	Val	Ser	Lys	Met	Gln	Glu	Asp	290	295	300	
Glu	Phe	Asp	Gln	Gly	Asn	Gln	Glu	Gln	Glu	Asp	Asn	Ser	Asn	Ala	Glu	305	310	315	320
Met	Glu	Glu	Glu	Asn	Ala	Ser	Asn	Val	Asn	Lys	His	Ile	Gln	Glu	Thr	325	330	335	
Glu	Trp	Gln	Ser	Gln	Glu	Gly	Lys	Thr	Gly	Leu	Glu	Ala	Ile	Ser	Asn	340	345	350	
His	Lys	Glu	Thr	Glu	Glu	Lys	Thr	Val	Ser	Glu	Ala	Leu	Leu	Met	Glu	355	360	365	

561

Pro Thr Asp Asp Gly Asn Thr Thr Pro Arg Asn His Gly Val Asp Asp
 370 375 380
 Asp Gly Asp Asp Asp Gly Asp Asp Gly Gly Thr Asp Gly Pro Arg His
 385 390 395 400
 Ser Ala Ser Asp Asp Tyr Phe Ile Pro Ser Gln Ala Phe Leu Glu Ala
 405 410 415
 Glu Arg Ala Gln Ser Ile Ala Tyr His Leu Lys Ile Glu Glu Gln Arg
 420 425 430
 Glu Lys Val His Glu Asn Glu Asn Ile Gly Thr Thr Glu Pro Gly Glu
 435 440 445
 His Gln Glu Ala Lys Lys Ala Glu Asn Ser Ser Asn Glu Glu Glu Thr
 450 455 460
 Ser Ser Glu Gly Asn Met Arg Val His Ala Val Asp Ser Cys Met Ser
 465 470 475 480
 Phe Gln Cys Lys Arg Gly His Ile Cys Lys Ala Asp Gln Gln Gly Lys
 485 490 495
 Pro His Cys Val Cys Gln Asp Pro Val Thr Cys Pro Pro Thr Lys Pro
 500 505 510
 Leu Asp Gln Val Cys Gly Thr Asp Asn Gln Thr Tyr Ala Ser Ser Cys
 515 520 525
 His Leu Phe Ala Thr Lys Cys Arg Leu Glu Gly Thr Lys Lys Gly His
 530 535 540
 Gln Leu Gln Leu Asp Tyr Phe Gly Ala Cys Lys Ser Ile Pro Thr Cys
 545 550 555 560
 Thr Asp Phe Glu Val Ile Gln Phe Pro Leu Arg Met Arg Asp Trp Leu
 565 570 575
 Lys Asn Ile Leu Met Gln Leu Tyr Glu Ala Asn Ser Glu His Ala Gly
 580 585 590
 Tyr Leu Asn Glu Lys Gln Arg Asn Lys Val Lys Lys Ile Tyr Leu Asp
 595 600 605
 Glu Lys Arg Leu Leu Ala Gly Asp His Pro Ile Asp Leu Leu Leu Arg
 610 615 620
 Asp Phe Lys Lys Asn Tyr His Met Tyr Val Tyr Pro Val His Trp Gln
 625 630 635 640

562

Phe Ser Glu Leu Asp Gln His Pro Met Asp Arg Val Leu Thr His Ser
645 650 655

Glu Leu Ala Pro Leu Arg Ala Ser Leu Val Pro Met Glu His Cys Ile
660 665 670

Thr Arg Phe Phe Glu Glu Cys Asp Pro Asn Xaa Gly
675 680

<210> 556
<211> 61
<212> PRT
<213> Homo sapiens

<400> 556
Leu Val Leu Ile Leu Leu Ala Gly Ile Asn Asn Pro Lys Ser Val Gln
1 5 10 15

Thr Leu Gly Ala Lys Cys Ser Thr Gln Phe Gly Ile Leu Cys Leu Lys
20 25 30

Ile Tyr Phe Ile Val Thr Ala Pro Cys Ile Tyr Ser Trp Pro Arg Thr
35 40 45

Glu Leu Leu Gln Val Thr Trp Asn Phe His Ser Lys Ser
50 55 60

<210> 557
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

563

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 557

Glu	Ile	Ala	Asn	Met	Pro	Asn	Ser	Glu	Pro	Ala	Ser	Leu	Leu	Glu	Leu
1				5					10					15	

Phe	Asn	Ser	Ile	Ala	Thr	Gln	Gly	Glu	Leu	Val	Arg	Ser	Leu	Lys	Ala
			20					25					30		

Gly	Asn	Ala	Ser	Lys	Asp	Glu	Ile	Asp	Ser	Ala	Val	Lys	Met	Leu	Val
		35					40					45			

Ser	Leu	Lys	Met	Ser	Tyr	Lys	Ala	Ala	Ala	Gly	Glu	Asp	Tyr	Lys	Ala
	50					55					60				

Asp	Cys	Pro	Pro	Gly	Asn	Pro	Ala	Pro	Thr	Ser	Asn	His	Gly	Pro	Asp
65					70					75				80	

Ala	Thr	Glu	Ala	Glu	Glu	Asp	Phe	Val	Asp	Pro	Trp	Thr	Val	Gln	Thr
				85					90					95	

Ser	Ser	Ala	Lys	Gly	Ile	Asp	Tyr	Asp	Lys	Leu	Ile	Val	Arg	Phe	Gly
			100					105					110		

Ser	Ser	Xaa	Asn	Xaa	Gln	Glu	Leu	Leu	Xaa	Asp	Xaa	Glu	Ser	Thr	Ala
		115					120					125			

Lys	Xaa	Thr	His	Ser	Gly	Gln	Gly	Xaa	Phe	Phe	Lys	Arg	Xaa		
	130					135					140				

<210> 558

564

<211> 475

<212> PRT

<213> Homo sapiens

<400> 558

Glu Ile Ala Asn Met Pro Asn Ser Glu Pro Ala Ser Leu Leu Glu Leu
 1 5 10 15

Phe Asn Ser Ile Ala Thr Gln Gly Glu Leu Val Arg Ser Leu Lys Ala
 20 25 30

Gly Asn Ala Ser Lys Asp Glu Ile Asp Ser Ala Val Lys Met Leu Val
 35 40 45

Ser Leu Lys Met Ser Tyr Lys Ala Ala Ala Gly Glu Asp Tyr Lys Ala
 50 55 60

Asp Cys Pro Pro Gly Asn Pro Ala Pro Thr Ser Asn His Gly Pro Asp
 65 70 75 80

Ala Thr Glu Ala Glu Glu Asp Phe Val Asp Pro Trp Thr Val Gln Thr
 85 90 95

Ser Ser Ala Lys Gly Ile Asp Tyr Asp Lys Leu Ile Val Arg Phe Gly
 100 105 110

Ser Ser Lys Ile Asp Lys Glu Leu Ile Asn Arg Ile Glu Arg Ala Thr
 115 120 125

Gly Gln Arg Pro His His Phe Leu Arg Arg Gly Ile Phe Phe Ser His
 130 135 140

Arg Asp Met Asn Gln Val Leu Asp Ala Tyr Glu Asn Lys Lys Pro Phe
 145 150 155 160

Tyr Leu Tyr Thr Gly Arg Gly Pro Ser Ser Glu Ala Met His Val Gly
 165 170 175

His Leu Ile Pro Phe Ile Phe Thr Lys Trp Leu Gln Asp Val Phe Asn
 180 185 190

Val Pro Leu Val Ile Gln Met Thr Asp Asp Glu Lys Tyr Leu Trp Lys
 195 200 205

Asp Leu Thr Leu Asp Gln Ala Tyr Ser Tyr Ala Val Glu Asn Ala Lys
 210 215 220

Asp Ile Ile Ala Cys Gly Phe Asp Ile Asn Lys Thr Phe Ile Phe Ser
 225 230 235 240

Asp Leu Asp Tyr Met Gly Met Ser Ser Gly Phe Tyr Lys Asn Val Val

565

	245		250		255
Lys Ile Gln	Lys His Val Thr Phe Asn Gln Val Lys Gly Ile Phe Gly				
	260		265		270
Phe Thr Asp	Ser Asp Cys Ile Gly Lys Ile Ser Phe Pro Ala Ile Gln				
	275		280		285
Ala Ala Pro	Ser Phe Ser Asn Ser Phe Pro Gln Ile Phe Arg Asp Arg				
	290		295		300
Thr Asp Ile	Gln Cys Leu Ile Pro Cys Ala Ile Asp Gln Asp Pro Tyr				
305		310		315	320
Phe Arg Met	Thr Arg Asp Val Ala Pro Arg Ile Gly Tyr Pro Lys Pro				
	325		330		335
Ala Leu Leu	His Ser Thr Phe Phe Pro Ala Leu Gln Gly Ala Gln Thr				
	340		345		350
Lys Met Ser	Ala Ser Asp Pro Asn Ser Ser Ile Phe Leu Thr Asp Thr				
	355		360		365
Ala Lys Gln	Ile Lys Thr Lys Val Asn Lys His Ala Phe Ser Gly Gly				
	370		375		380
Arg Asp Thr	Ile Glu Glu His Arg Gln Phe Gly Gly Asn Cys Asp Val				
385		390		395	400
Asp Val Ser	Phe Met Tyr Leu Thr Phe Phe Leu Glu Asp Asp Asp Lys				
	405		410		415
Leu Glu Gln	Ile Arg Lys Asp Tyr Thr Ser Gly Ala Met Leu Thr Gly				
	420		425		430
Glu Leu Lys	Lys Ala Leu Ile Glu Val Leu Gln Pro Leu Ile Ala Glu				
	435		440		445
His Gln Ala	Arg Arg Lys Glu Val Thr Asp Glu Ile Val Lys Glu Phe				
	450		455		460
Met Thr Pro	Arg Lys Leu Ser Phe Asp Phe Gln				
465		470		475	

<210> 559

<211> 265

<212> PRT

<213> Homo sapiens

566

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 559

Trp Ile Pro Xaa Leu Gln Ile Arg Thr Gly Glu Ser Tyr Cys Cys Gly
 1 5 10 15

Leu Arg Gly Arg Arg Pro Cys Arg Ser Thr Ser Thr Ser Ala Gly Lys
 20 25 30

Leu Arg Arg Arg Thr Ala Pro Arg Gly Ser Arg Glu Ala His Gly Val
 35 40 45

Gln Ala Leu Arg Gly Gly Trp Pro Gly Gly Tyr Val Ser Phe Gly Pro
 50 55 60

His Ala Gly Lys Leu Val Ala Ile Val Asp Val Ile Asp Gln Asn Arg
 65 70 75 80

Ala Leu Val Asp Gly Pro Cys Thr Gln Val Arg Arg Gln Ala Met Pro
 85 90 95

Phe Lys Cys Met Gln Leu Thr Asp Phe Ile Leu Lys Phe Pro His Ser
 100 105 110

Ala His Gln Lys Tyr Val Arg Gln Ala Trp Gln Lys Ala Asp Ile Asn
 115 120 125

Thr Lys Trp Ala Ala Thr Arg Trp Ala Lys Lys Ile Glu Ala Arg Glu
 130 135 140

Arg Lys Ala Lys Met Thr Asp Phe Asp Arg Phe Lys Val Met Lys Ala
 145 150 155 160

Lys Lys Met Arg Asn Arg Ile Ile Lys Asn Glu Val Lys Lys Leu Gln
 165 170 175

Lys Ala Ala Leu Leu Lys Ala Ser Pro Lys Lys Ala Pro Gly Thr Lys
 180 185 190

Gly Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 195 200 205

Ala Lys Val Pro Ala Lys Lys Ile Thr Ala Ala Ser Lys Lys Ala Pro
 210 215 220

Ala Gln Lys Val Pro Ala Gln Lys Ala Thr Gly Gln Lys Ala Ala Pro
 225 230 235 240

567

Ala Pro Lys Ala Gln Lys Gly Gln Lys Ala Pro Ala Gln Lys Ala Pro
245 250 255

Ala Pro Lys Ala Ser Gly Lys Lys Ala
260 265

<210> 560
<211> 41
<212> PRT
<213> Homo sapiens

<400> 560
Pro Asn Leu Ile Pro Val Ser Arg Asp Trp Glu Gly Arg Ala Ala Ala
1 5 10 15

Gly Gly Gln Ala Gly Ser Ala Cys Glu Gly Glu Glu Leu Trp Thr Ser
20 25 30

Ala Ser Leu Pro Arg Glu Arg Val Arg
35 40

<210> 561
<211> 48
<212> PRT
<213> Homo sapiens

<400> 561
Lys His Lys Asn Lys Asn Ile Ser Asp Asn Asn Ile Glu Lys Thr Lys
1 5 10 15

Ile His Gly Leu Glu Phe His Pro Arg Asp Cys Ile Leu Lys Asp Thr
20 25 30

Gly Phe Ser Ser Phe Phe Phe Phe Ser Phe His Val Ser Val Leu
35 40 45

<210> 562
<211> 168
<212> PRT
<213> Homo sapiens

<400> 562

568

Glu Pro Trp Pro Ser Pro Lys Lys Ala Arg Ser Gly Arg Trp Leu Arg
 1 5 10 15
 Asn Gly Phe Lys Arg Lys Met Glu Glu Pro Glu Glu Pro Ala Asp Ser
 20 25 30
 Gly Gln Ser Leu Val Pro Val Tyr Ile Tyr Ser Pro Glu Tyr Val Ser
 35 40 45
 Met Cys Asp Ser Leu Ala Lys Ile Pro Lys Arg Ala Ser Met Val His
 50 55 60
 Ser Leu Ile Glu Ala Tyr Ala Leu His Lys Gln Met Arg Ile Val Lys
 65 70 75 80
 Pro Lys Val Ala Ser Met Glu Glu Met Ala Thr Phe His Thr Asp Ala
 85 90 95
 Tyr Leu Gln His Leu Gln Lys Val Ser Gln Glu Gly Asp Asp Asp His
 100 105 110
 Pro Asp Ser Ile Glu Tyr Gly Leu Gly Tyr Asp Cys Pro Ala Thr Glu
 115 120 125
 Gly Ile Phe Asp Tyr Ala Ala Ala Ile Gly Gly Ala Thr Ile Thr Ala
 130 135 140
 Ala Gln Cys Leu Ile Asp Gly Met Cys Lys Val Ala Ile Asn Trp Ser
 145 150 155 160
 Gly Arg Trp His His Ala Lys Lys
 165

<210> 563

<211> 352

<212> PRT

<213> Homo sapiens

<400> 563

Gly Ser Phe Gln Arg Cys Lys Lys Gly Gln Arg Leu Phe Pro Met Ala
 1 5 10 15
 Glu Gly Asn His Arg Lys Lys Pro Leu Lys Val Leu Glu Ser Leu Gly
 20 25 30
 Lys Asp Phe Leu Thr Gly Val Leu Asp Asn Leu Val Glu Gln Asn Val
 35 40 45
 Leu Asn Trp Lys Glu Glu Glu Lys Lys Lys Tyr Tyr Asp Ala Lys Thr

569

50	55	60
Glu Asp Lys Val Arg Val Met Ala Asp Ser Met Gln Glu Lys Gln Arg		
65	70	75 80
Met Ala Gly Gln Met Leu Leu Gln Thr Phe Phe Asn Ile Asp Gln Ile		
	85	90 95
Ser Pro Asn Lys Lys Ala His Pro Asn Met Glu Ala Gly Pro Pro Glu		
	100	105 110
Ser Gly Glu Ser Thr Asp Ala Leu Lys Leu Cys Pro His Glu Glu Phe		
	115	120 125
Leu Arg Leu Cys Lys Glu Arg Ala Glu Glu Ile Tyr Pro Ile Lys Glu		
	130	135 140
Arg Asn Asn Arg Thr Arg Leu Ala Leu Ile Ile Cys Asn Thr Glu Phe		
	145	150 155 160
Asp His Leu Pro Pro Arg Asn Gly Ala Asp Phe Asp Ile Thr Gly Met		
	165	170 175
Lys Glu Leu Leu Glu Gly Leu Asp Tyr Ser Val Asp Val Glu Glu Asn		
	180	185 190
Leu Thr Ala Arg Asp Met Glu Ser Ala Leu Arg Ala Phe Ala Thr Arg		
	195	200 205
Pro Glu His Lys Ser Ser Asp Ser Thr Phe Leu Val Leu Met Ser His		
	210	215 220
Gly Ile Leu Glu Gly Ile Cys Gly Thr Val His Asp Glu Lys Lys Pro		
	225	230 235 240
Asp Val Leu Leu Tyr Asp Thr Ile Phe Gln Ile Phe Asn Asn Arg Asn		
	245	250 255
Cys Leu Ser Leu Lys Asp Lys Pro Lys Val Ile Ile Val Gln Ala Cys		
	260	265 270
Arg Gly Ala Asn Arg Gly Glu Leu Trp Val Arg Asp Ser Pro Ala Ser		
	275	280 285
Leu Glu Val Ala Ser Ser Gln Ser Ser Glu Asn Leu Glu Glu Asp Ala		
	290	295 300
Val Tyr Lys Thr His Val Glu Lys Asp Phe Ile Ala Phe Cys Ser Ser		
	305	310 315 320
Thr Pro His Asn Val Pro Gly Glu Thr Ala Gln Trp Ala Leu Ser Ser		

570

	325		330		335
Ser His Asn Ser Ser His Ala Ser Arg Asn Ile Leu Gly Ala Ala Thr					
	340		345		350

<210> 564

<211> 318

<212> PRT

<213> Homo sapiens

<400> 564

Arg Phe Tyr Arg Ser Arg Lys Lys His Leu Ile Thr Thr Gln Thr Glu
1 5 10 15

His Lys Cys Val Leu Asp Ser Cys Arg Ser Leu Glu Ala Glu Gly Phe
20 25 30

Gln Val Thr Tyr Leu Pro Val Gln Lys Ser Gly Ile Ile Asp Leu Lys
35 40 45

Glu Leu Glu Ala Ala Ile Gln Pro Asp Thr Ser Leu Val Ser Val Met
50 55 60

Thr Val Asn Asn Glu Ile Gly Val Lys Gln Pro Ile Ala Glu Ile Gly
65 70 75 80

Arg Ile Cys Ser Ser Arg Lys Val Tyr Phe His Thr Asp Ala Ala Gln
85 90 95

Ala Val Gly Lys Ile Pro Leu Asp Val Asn Asp Met Lys Ile Asp Leu
100 105 110

Met Ser Ile Ser Gly His Lys Ile Tyr Gly Pro Lys Gly Val Gly Ala
115 120 125

Ile Tyr Ile Arg Arg Arg Pro Arg Val Arg Val Glu Ala Leu Gln Ser
130 135 140

Gly Gly Gly Gln Glu Arg Gly Met Arg Ser Gly Thr Val Pro Thr Pro
145 150 155 160

Leu Val Val Gly Leu Gly Ala Ala Cys Glu Val Ala Gln Gln Glu Met
165 170 175

Glu Tyr Asp His Lys Arg Ile Ser Lys Leu Ser Glu Arg Leu Ile Gln
180 185 190

571

Asn	Ile	Met	Lys	Ser	Leu	Pro	Asp	Val	Val	Met	Asn	Gly	Asp	Pro	Lys
195						200						205			
His	His	Tyr	Pro	Gly	Cys	Ile	Asn	Leu	Ser	Phe	Ala	Tyr	Val	Glu	Gly
210						215						220			
Glu	Ser	Leu	Leu	Met	Ala	Leu	Lys	Asp	Val	Ala	Leu	Ser	Ser	Gly	Ser
225						230						240			
Ala	Cys	Thr	Ser	Ala	Ser	Leu	Glu	Pro	Ser	Tyr	Val	Leu	Arg	Ala	Ile
			245						250			255			
Gly	Thr	Asp	Glu	Asp	Leu	Ala	His	Ser	Ser	Ile	Arg	Phe	Gly	Ile	Gly
			260						265			270			
Arg	Phe	Thr	Thr	Glu	Glu	Glu	Val	Asp	Tyr	Thr	Val	Glu	Lys	Cys	Ile
275						280						285			
Gln	His	Val	Lys	Arg	Leu	Arg	Glu	Met	Ser	Pro	Leu	Trp	Glu	Met	Val
290						295						300			
Gln	Asp	Gly	Ile	Asp	Leu	Lys	Ser	Ile	Lys	Trp	Thr	Gln	His		
305						310						315			

<210> 565

<211> 418

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (367)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (383)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 565

Glu Ser Thr Glu Ser Leu Thr Xaa Glu Gly Thr Asp Met Asn Glu Gly
1 5 10 15

572

Gln Leu Leu Gly Asp Phe Glu Ile Glu Ser Lys Gln Leu Glu Ala Glu
 20 25 30
 Ser Trp Ser Arg Ile Ile Asp Ser Lys Phe Leu Lys Gln Gln Lys Lys
 35 40 45
 Asp Val Val Lys Arg Gln Glu Val Ile Tyr Glu Leu Met Gln Thr Glu
 50 55 60
 Phe His His Val Arg Thr Leu Lys Ile Met Ser Gly Val Tyr Ser Gln
 65 70 75 80
 Gly Met Met Ala Asp Leu Leu Phe Glu Gln Gln Met Val Glu Lys Leu
 85 90 95
 Phe Pro Cys Leu Asp Glu Leu Ile Ser Ile His Ser Gln Phe Phe Gln
 100 105 110
 Arg Ile Leu Glu Arg Lys Lys Glu Ser Leu Val Asp Lys Ser Glu Lys
 115 120 125
 Asn Phe Leu Ile Lys Arg Ile Gly Asp Val Leu Val Asn Gln Phe Ser
 130 135 140
 Gly Glu Asn Ala Glu Arg Leu Lys Lys Thr Tyr Gly Lys Phe Cys Gly
 145 150 155 160
 Gln His Asn Gln Ser Val Asn Tyr Phe Lys Asp Leu Tyr Ala Lys Asp
 165 170 175
 Lys Arg Phe Gln Ala Phe Val Lys Lys Lys Met Ser Ser Ser Val Val
 180 185 190
 Arg Arg Leu Gly Ile Pro Glu Cys Ile Leu Leu Val Thr Gln Arg Ile
 195 200 205
 Thr Lys Tyr Pro Val Leu Phe Gln Arg Ile Leu Gln Cys Thr Lys Asp
 210 215 220
 Asn Glu Val Glu Gln Glu Asp Leu Ala Gln Ser Leu Ser Leu Val Lys
 225 230 235 240
 Asp Val Ile Gly Ala Val Asp Ser Lys Val Ala Ser Tyr Glu Lys Lys
 245 250 255
 Val Arg Leu Asn Glu Ile Tyr Thr Lys Thr Asp Ser Lys Ser Ile Met
 260 265 270
 Arg Met Lys Ser Gly Gln Met Phe Ala Lys Glu Asp Leu Lys Arg Lys
 275 280 285

573

Lys Leu Val Arg Asp Gly Ser Val Phe Leu Lys Asn Ala Ala Gly Arg
 290 295 300
 Leu Lys Glu Val Gln Ala Val Leu Leu Thr Asp Ile Leu Val Phe Leu
 305 310 315 320
 Gln Glu Lys Asp Gln Lys Tyr Ile Phe Ala Ser Leu Asp Gln Lys Ser
 325 330 335
 Thr Val Ile Ser Leu Lys Lys Leu Ile Val Arg Glu Val Ala His Glu
 340 345 350
 Glu Lys Gly Leu Phe Leu Ile Ser Met Gly Met Thr Asp Pro Xaa Met
 355 360 365
 Val Glu Val His Ala Ser Ser Lys Glu Glu Arg Asn Ser Trp Xaa Gln
 370 375 380
 Ile Ile Gln Asp Thr Ile Asn Thr Arg Thr Glu Met Lys Met Lys Glu
 385 390 395 400
 Phe Leu Val Arg Met Arg Lys Lys Arg Lys Cys Trp Thr Pro Glu Pro
 405 410 415
 Glu Asn

<210> 566

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 566

Pro Gln Cys Leu Gln Lys His Phe Ala Lys Ile Arg Asp Arg Ser Thr
 1 5 10 15

Ser Gly Gly Lys Met Lys Val Asn Gly Ala Pro Arg Glu Asp Ala Arg
 20 25 30

Pro Val Pro Gln Gly Ser Cys Gln Ser Glu Leu His Arg Ala Leu Glu
 35 40 45

Arg Leu Ala Xaa Ser Gln Ser Arg Thr His Glu Asp Leu Tyr Ile Ile
 50 55 60

574

Pro Ile Pro Asn Cys Asp Arg Asn Gly Asn Phe His Pro Lys Gln Cys
 65 70 75 80

His Pro Ala Leu Asp Gly Gln Arg Gly Lys Cys Trp Cys Val Asp Arg
 85 90 95

Lys Thr Gly Val Lys Leu Pro Gly Gly Leu Glu Pro Lys Gly Glu Leu
 100 105 110

Asp Cys His Gln Leu Ala Asp Ser Phe Arg Glu
 115 120

<210> 567

<211> 305

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (266)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 567

Gly Ser Leu Leu Met Lys Ile Glu Leu Ser Met Gln Pro Trp Asn Pro
 1 5 10 15

Gly Tyr Ser Ser Glu Gly Ala Thr Ala Gln Glu Thr Tyr Thr Cys Pro
 20 25 30

Lys Met Ile Glu Met Glu Gln Ala Glu Ala Gln Leu Ala Glu Leu Asp
 35 40 45

Leu Leu Ala Ser Met Phe Pro Gly Glu Asn Glu Leu Ile Val Asn Asp
 50 55 60

Gln Leu Ala Val Ala Glu Leu Lys Asp Cys Ile Glu Lys Lys Thr Met
 65 70 75 80

575

Glu Gly Arg Ser Ser Lys Val Tyr Phe Thr Ile Asn Met Asn Leu Asp
 85 90 95
 Val Ser Asp Glu Lys Met Ala Met Phe Ser Leu Ala Cys Ile Leu Pro
 100 105 110
 Phe Lys Tyr Pro Ala Val Leu Pro Glu Ile Thr Val Arg Ser Val Leu
 115 120 125
 Leu Ser Arg Ser Gln Gln Thr Gln Leu Asn Thr Asp Leu Thr Ala Phe
 130 135 140
 Leu Gln Lys His Cys His Gly Asp Val Cys Ile Leu Asn Ala Thr Glu
 145 150 155 160
 Trp Xaa Arg Glu His Ala Ser Gly Tyr Val Ser Arg Asp Thr Ser Ser
 165 170 175
 Ser Pro Thr Thr Gly Ser Thr Val Gln Ser Val Asp Leu Ile Phe Thr
 180 185 190
 Arg Leu Trp Ile Tyr Ser His His Ile Tyr Asn Lys Cys Lys Arg Lys
 195 200 205
 Asn Ile Leu Glu Trp Xaa Lys Glu Leu Ser Leu Ser Gly Phe Ser Met
 210 215 220
 Pro Gly Lys Pro Gly Val Val Cys Val Glu Gly Pro Gln Ser Ala Cys
 225 230 235 240
 Glu Glu Phe Trp Ser Arg Leu Arg Lys Leu Asn Ser Glu Glu Asn Phe
 245 250 255
 Asn Ser Pro Ser Glu Lys Thr Phe Leu Xaa Met Val Gln Met Met Lys
 260 265 270
 Arg Lys Asp Lys Gly Asn Phe Pro Phe Leu Lys Lys Lys Cys Ser Val
 275 280 285
 Leu Met Glu Pro Gly Glu Thr Thr Trp Thr Leu Val Ser Ser Ile Ser
 290 295 300

Ser
 305

<210> 568

<211> 596

<212> PRT

<213> Homo sapiens

576

<400> 568

Gln Glu Arg Asp Gly Ala Lys Met Ala Ala Ala Asp Gly Asp Asp Ser
 1 5 10 15
 Leu Tyr Pro Ile Ala Val Leu Ile Asp Glu Leu Arg Asn Glu Asp Val
 20 25 30
 Gln Leu Arg Leu Asn Ser Ile Lys Lys Leu Ser Thr Ile Ala Leu Ala
 35 40 45
 Leu Gly Val Glu Arg Thr Arg Ser Glu Leu Leu Pro Phe Leu Thr Asp
 50 55 60
 Thr Ile Tyr Asp Glu Asp Glu Val Leu Leu Ala Leu Ala Glu Gln Leu
 65 70 75 80
 Gly Thr Phe Thr Thr Leu Val Gly Gly Pro Glu Tyr Val His Cys Leu
 85 90 95
 Leu Pro Pro Leu Glu Ser Leu Ala Thr Val Glu Glu Thr Val Val Arg
 100 105 110
 Asp Lys Ala Val Glu Ser Leu Arg Ala Ile Ser His Glu His Ser Pro
 115 120 125
 Ser Asp Leu Glu Ala His Phe Val Pro Leu Val Lys Arg Leu Ala Gly
 130 135 140
 Gly Asp Trp Phe Thr Ser Arg Thr Ser Ala Cys Gly Leu Phe Ser Val
 145 150 155 160
 Cys Tyr Pro Arg Val Ser Ser Ala Val Lys Ala Glu Leu Arg Gln Tyr
 165 170 175
 Phe Arg Asn Leu Cys Ser Asp Asp Thr Pro Met Val Arg Arg Ala Ala
 180 185 190
 Ala Ser Lys Leu Gly Glu Phe Ala Lys Val Leu Glu Leu Asp Asn Val
 195 200 205
 Lys Ser Glu Ile Ile Pro Met Phe Ser Asn Leu Ala Ser Asp Glu Gln
 210 215 220
 Asp Ser Val Arg Leu Leu Ala Val Glu Ala Cys Val Asn Ile Ala Gln
 225 230 235 240
 Leu Leu Pro Gln Glu Asp Leu Glu Ala Leu Val Met Pro Thr Leu Arg
 245 250 255
 Gln Ala Ala Glu Asp Lys Ser Trp Arg Val Arg Tyr Met Val Ala Asp

577

260	265	270
Lys Phe Thr Glu Leu Gln Lys	Ala Val Gly Pro Glu Ile Thr Lys Thr	
275	280	285
Asp Leu Val Pro Ala Phe Gln Asn Leu Met Lys Asp Cys Glu Ala Glu		
290	295	300
Val Arg Ala Ala Ala Ser His Lys Val Lys Glu Phe Cys Glu Asn Leu		
305	310	315
Ser Ala Asp Cys Arg Glu Asn Val Ile Met Ser Gln Ile Leu Pro Cys		
325	330	335
Ile Lys Glu Leu Val Ser Asp Ala Asn Gln His Val Lys Ser Ala Leu		
340	345	350
Ala Ser Val Ile Met Gly Leu Ser Pro Ile Leu Gly Lys Asp Asn Thr		
355	360	365
Ile Glu His Leu Leu Pro Leu Phe Leu Ala Gln Leu Lys Asp Glu Cys		
370	375	380
Pro Glu Val Arg Leu Asn Ile Ile Ser Asn Leu Asp Cys Val Asn Glu		
385	390	395
Val Ile Gly Ile Arg Gln Leu Ser Gln Ser Leu Leu Pro Ala Ile Val		
405	410	415
Glu Leu Ala Glu Asp Ala Lys Trp Arg Val Arg Leu Ala Ile Ile Glu		
420	425	430
Tyr Met Pro Leu Leu Ala Gly Gln Leu Gly Val Glu Phe Phe Asp Glu		
435	440	445
Lys Leu Asn Ser Leu Cys Met Ala Trp Leu Val Asp His Val Tyr Ala		
450	455	460
Ile Arg Glu Ala Ala Thr Ser Asn Leu Lys Lys Leu Val Glu Lys Phe		
465	470	475
Gly Lys Glu Trp Ala His Ala Thr Ile Ile Pro Lys Val Leu Ala Met		
485	490	495
Ser Gly Asp Pro Asn Tyr Leu His Arg Met Thr Thr Leu Phe Cys Ile		
500	505	510
Asn Val Leu Ser Glu Val Cys Gly Gln Asp Ile Thr Thr Lys His Met		
515	520	525
Leu Pro Thr Val Leu Arg Met Ala Gly Asp Pro Val Ala Asn Val Arg		

578

530 535 540
 Phe Asn Val Ala Lys Ser Leu Gln Lys Ile Gly Pro Ile Leu Asp Asn
 545 550 555 560
 Ser Thr Leu Gln Ser Glu Val Lys Pro Ile Leu Glu Lys Leu Thr Gln
 565 570 575
 Asp Gln Asp Val Asp Val Lys Tyr Phe Ala Gln Glu Ala Leu Thr Val
 580 585 590
 Leu Ser Leu Ala
 595

<210> 569
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 569
 Ser Thr Val Trp Thr Arg Asn Val Pro Cys His His Ala Met Lys Tyr
 1 5 10 15
 Cys Tyr Arg Phe Asn Ile Ala His Leu Cys Arg Met Asn Ser Gly Gly
 20 25 30
 Leu Pro Gln Val Thr Val Arg Thr Val Asp Gly Glu Ile Ala Asp Ala
 35 40 45
 Leu Leu Ser Arg Phe Ser Val Thr Phe Ser Met Phe Ile Thr Gln Trp
 50 55 60
 Val Phe Ile Asn Met Leu Ile Lys Leu Phe Thr Gly Pro Val Ile Val
 65 70 75 80
 Leu Asn Ser Cys Ser Phe Val Phe His Cys Leu Asp Val
 85 90

<210> 570
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

579

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 570

Xaa Gln Leu Asp Tyr Arg Glu Tyr Leu Glu Ser Tyr Leu Ser Tyr Pro
 1 5 10 15

Leu Leu Xaa Asn Met Lys Ser His Ala Leu Asp Ile Leu Tyr Ile Ile
 20 25 30

Arg Phe Leu Cys Phe Trp Leu Cys Cys Pro Pro Ser Pro Trp Gly
 35 40 45

Asp Ile Trp Glu Gln Thr Tyr Leu Asp Leu Glu
 50 55

<210> 571

<211> 132

<212> PRT

<213> Homo sapiens

<400> 571

Ile Ile Tyr Phe Gln Cys Phe Leu His Val Leu Ile Cys Ser Phe Ser
 1 5 10 15

Gln Leu Asn Ala Pro Thr Gly Leu Ser Pro Val Ser Ile Gln Ser Val
 20 25 30

Glu Ile Lys Asp Ser Ser Phe Leu Leu Ile Ser Ile Leu Val Ser Ile
 35 40 45

Leu Asn Leu Glu Thr Ser Cys Phe Tyr Asp Ile Ser His Leu Ile Phe
 50 55 60

Phe Ile Phe Tyr Leu Arg Asn Met Lys Lys Lys Tyr Thr Lys Met Val
 65 70 75 80

Lys Leu Leu His Lys Ser Ala Pro Ala Gln Ser Asp Ser Cys Lys Cys
 85 90 95

Pro Phe Ile Cys Cys Val Cys Ile Ser Arg Ile Ser Ile Gly Ser Arg
 100 105 110

Ser Gly Tyr Gln Tyr Ile Met His Arg Ser Val Gly Cys Leu Lys Ala
 115 120 125

580

Lys Gln Glu Asn
130

<210> 572

<211> 145

<212> PRT

<213> Homo sapiens

<400> 572

Val Gly Leu Ala Pro Leu Gln Arg Phe Trp Gly Ser Gly Cys Cys Val
1 5 10 15

Ser Pro Cys Leu Cys Pro Gly His Pro Lys Pro Phe Cys Tyr Leu Leu
20 25 30

Gly Leu Trp Glu Gly Phe Phe Phe Phe Phe Leu Glu Pro Ala Pro Val
35 40 45

Leu His Thr Ala Pro His Ala Ser Ala Ser Tyr Arg Cys Ala Ile Met
50 55 60

Gly Gly Met Gly Gly Ala Glu Gly Leu Pro His Pro Gly Gln Ala Lys
65 70 75 80

Ala Val Gly Arg Gly Ala Leu Pro Pro Phe Pro Ala Pro Ser Ser Ser
85 90 95

Leu Ile Lys Thr Trp Leu Leu Ile Phe Asn Lys Asp Leu Phe Val Thr
100 105 110

Glu Lys Lys Lys Lys Arg Ala Gly Arg Ser Lys Arg Ile Pro Arg Gly
115 120 125

Gly Pro Ser Phe Thr Arg Gly Met Ala Asn Val His Lys Leu Ser Ser
130 135 140

Leu
145

<210> 573

<211> 286

<212> PRT

<213> Homo sapiens

<400> 573

Val Ile Ser Glu Arg Leu Ser Ala Cys Pro Pro Ser Arg Arg Val Ala
1 5 10 15

581

Gly Ala Cys Ala Ser Arg Ser Thr Ser Leu Leu Leu Ser Arg Pro Arg
 20 25 30
 Pro Gly Gly Pro Glu Arg Glu Ala Gly Thr Met Phe Arg Arg Lys Leu
 35 40 45
 Thr Ala Leu Asp Tyr His Asn Pro Ala Gly Phe Asn Cys Lys Asp Glu
 50 55 60
 Thr Glu Phe Arg Asn Phe Ile Val Trp Leu Glu Asp Gln Lys Ile Arg
 65 70 75 80
 His Tyr Lys Ile Glu Asp Arg Gly Asn Leu Arg Asn Ile His Ser Ser
 85 90 95
 Asp Trp Pro Lys Phe Phe Glu Lys Tyr Leu Arg Asp Val Asn Cys Pro
 100 105 110
 Phe Lys Ile Gln Asp Arg Gln Glu Ala Ile Asp Trp Leu Leu Gly Leu
 115 120 125
 Ala Val Arg Leu Glu Tyr Gly Asp Asn Ala Glu Lys Tyr Lys Asp Leu
 130 135 140
 Val Pro Asp Asn Ser Lys Thr Ala Asp Asn Ala Thr Lys Asn Ala Glu
 145 150 155 160
 Pro Leu Ile Asn Leu Asp Val Asn Asn Pro Asp Phe Lys Ala Gly Val
 165 170 175
 Met Ala Leu Ala Asn Leu Leu Gln Ile Gln Arg His Asp Asp Tyr Leu
 180 185 190
 Val Met Leu Lys Ala Ile Arg Ile Leu Val Gln Glu Arg Leu Thr Gln
 195 200 205
 Asp Ala Val Ala Lys Ala Asn Gln Thr Lys Glu Gly Leu Pro Val Ala
 210 215 220
 Leu Asp Lys His Ile Leu Gly Phe Asp Thr Gly Asp Ala Val Leu Asn
 225 230 235 240
 Glu Ala Ala Gln Ile Leu Arg Leu Leu His Ile Glu Glu Leu Arg Glu
 245 250 255
 Leu Gln Thr Lys Ile Asn Glu Ala Ile Val Ala Val Gln Ala Ile Ile
 260 265 270
 Ala Asp Pro Lys Thr Asp His Arg Leu Gly Lys Val Gly Arg
 275 280 285

582

<210> 574

<211> 63

<212> PRT

<213> Homo sapiens

<400> 574

Met Arg Lys Ile Arg His Arg Glu Val Lys Val Gly Ile Asp Pro Asn
1 5 10 15

Leu His Asn Lys Ile Met Thr Ser Pro Ala Phe Lys Leu Ile Ile Lys
20 25 30

Gly Trp Ala Gly Phe Val Leu Leu Tyr Val Ser Gly Asn Leu Tyr Leu
35 40 45

Leu His Phe Pro Phe Ser Gln Asn Leu Ser His Met Thr Asn Ile
50 55 60

<210> 575

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 575

Ala Ser Leu Pro Trp Ser Ser Tyr Glu Gln Glu Lys Glu Ala Leu Thr
1 5 10 15

His Ser Phe Arg Glu Ala Ser Ser Thr Gln Gln Glu Thr Ile Asp Arg
20 25 30

Leu Thr Ser Gln Leu Glu Ala Phe Gln Ala Lys Met Lys Arg Val Glu
35 40 45

Glu Ser Ile Leu Ser Arg Asn Tyr Lys Lys His Ile Gln Asp Tyr Gly
50 55 60

583

Ser Pro Ser Gln Phe Trp Glu Gln Glu Leu Glu Ser Leu His Phe Val
 65 70 75 80
 Ile Glu Met Lys Asn Glu Arg Ile His Glu Leu Asp Arg Arg Leu Ile
 85 90 95
 Leu Met Glu Thr Val Lys Glu Lys Asn Leu Ile Leu Glu Glu Lys Ile
 100 105 110
 Thr Thr Leu Gln Gln Glu Asn Glu Asp Leu His Val Arg Ser Arg Asn
 115 120 125
 Gln Val Val Leu Ser Arg Gln Leu Ser Glu Asp Leu Leu Leu Thr Arg
 130 135 140
 Glu Ala Leu Glu Lys Glu Val Gln Leu Arg Xaa Gln Leu Gln Gln Glu
 145 150 155 160
 Lys Glu Glu Leu Xaa Tyr Arg Val Leu Gly Ala Asn Ala Ser Pro Ala
 165 170 175
 Phe Pro Leu Ala Pro Val Thr Pro Thr Gly Lys Gly Gly
 180 185

<210> 576
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 576
 Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala Val Tyr
 1 5 10 15
 Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala Ile Arg
 20 25 30
 Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala Ala Thr
 35 40 45
 Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln Ala Trp
 50 55 60
 Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg
 65 70 75 80
 Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg Ala Lys
 85 90 95
 Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala Phe Gln

584

100 105 110
Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg
115 120 125
Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly Thr Ser
130 135 140
Ala Ala Pro Val Pro Ser Asp Asn His
145 150

<210> 577
<211> 48
<212> PRT
<213> Homo sapiens

<400> 577
Thr Glu Ile Thr Pro Leu His Ser Ser Leu Ala Lys Lys Leu Pro Lys
1 5 10 15
Asn Glu Pro Gln Asn Pro Gly Ala Asn Ser Ala Arg Gly Arg Gly Val
20 25 30
Asp Leu Thr Glu Pro Thr Gln Pro Thr Arg Asn Gln Cys Cys Ser Asn
35 40 45

<210> 578
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)

585

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 578

Lys Thr Ile Gln Asp Pro Leu Ala Ala Thr Leu Phe Ser Ser Ser Leu
 1 5 10 15

Leu Asn Ser Ile Ser Lys Ile Gly Asn Arg Ala Arg Arg Ile Pro Ser
 20 25 30

Thr Gln Pro Ser Ala Trp His Lys Xaa Val Gly Thr Ile Lys Phe Ser
 35 40 45

Met Gly Trp Glu His Gly Tyr Ser Leu Gly Cys His Arg Lys Gly Val
 50 55 60

Gly Xaa His Arg Ser His Ile His Leu Ile Ser Trp Asp Val Pro Leu
 65 70 75 80

His Arg Gly Asn Thr Asn Phe Arg Gly Phe Trp Gly Xaa Gly Leu Gly
 85 90 95

Ser Asp

<210> 579

<211> 194

<212> PRT

<213> Homo sapiens

<400> 579

Thr Tyr Asn Ile Lys Met Ala Ser Lys Arg Ala Leu Val Ile Leu Ala
 1 5 10 15

Lys Gly Ala Glu Glu Met Glu Thr Val Ile Pro Val Asp Val Met Arg
 20 25 30

Arg Ala Gly Ile Lys Val Thr Val Ala Gly Leu Ala Gly Lys Asp Pro
 35 40 45

Val Gln Cys Ser Arg Asp Val Val Ile Cys Pro Asp Ala Ser Leu Glu
 50 55 60

Asp Ala Lys Lys Glu Gly Pro Tyr Asp Val Val Val Leu Pro Gly Gly
 65 70 75 80

Asn Leu Gly Ala Gln Asn Leu Ser Glu Ser Ala Ala Val Lys Glu Ile
 85 90 95

Leu Lys Glu Gln Glu Asn Arg Lys Gly Leu Ile Ala Ala Ile Cys Ala

586

100 105 110
 Gly Pro Thr Ala Leu Leu Ala His Glu Ile Gly Phe Gly Ser Lys Val
 115 120 125
 Thr Thr His Pro Leu Ala Lys Asp Lys Met Met Asn Gly Gly His Tyr
 130 135 140
 Thr Tyr Ser Glu Asn Arg Val Glu Lys Asp Gly Leu Ile Leu Thr Ser
 145 150 155 160
 Arg Gly Pro Gly Thr Ser Phe Glu Phe Ala Leu Ala Ile Val Glu Ala
 165 170 175
 Leu Asn Gly Lys Glu Val Ala Ala Gln Val Lys Ala Pro Leu Val Leu
 180 185 190
 Lys Asp

<210> 580
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 580
 Asp Pro Arg Arg Pro Pro Thr Arg Pro Trp Gly Leu Pro Arg Ala Pro
 1 5 10 15
 Ala Thr Ala Arg Thr Arg Gly Arg Ser Leu Asn Ile Pro Leu Thr Thr
 20 25 30
 Arg Arg Arg Pro Ala Thr Glu Ala Pro Ser Thr Leu Ser Pro His Ile
 35 40 45
 Val Ser Pro Ser Gly Phe Leu Gly Phe Ser Val Phe Ser Ser Phe Phe
 50 55 60
 Phe Phe Leu Thr Arg Ser Val Leu Pro Val Asn Gln Gly Ser Val Ser
 65 70 75 80
 Val Ser Val Gly Ser Gly Ser Arg Ala Phe Phe Pro Phe Ala Leu Ile
 85 90 95
 Leu Arg Lys Ala Glu Pro Leu Gly Cys Gly Gly Arg Gly Gln Gly His
 100 105 110
 Ile Pro Ile Arg Val Gly Arg Gly Ser Leu Leu Ala His Ser Gly Cys
 115 120 125

587

Ala Gly Lys Lys Arg Pro Gly Leu Gly Arg Asn Arg Ser Pro Thr Val
 130 135 140

Ser Gly Cys Leu Ala Ser Ser Pro Phe Cys Gln Leu Ser Ser Leu Trp
 145 150 155 160

Phe Leu Cys Pro Gln Val Ser Gly Ser Ile His Lys Arg Lys Ile His
 165 170 175

Phe Phe Pro Gln Gly Trp Gly Lys Asp Ser Gly Glu Ser Ala Arg Lys
 180 185 190

<210> 581

<211> 112

<212> PRT

<213> Homo sapiens

<400> 581

Lys Asn Lys Lys Gln Asn Tyr Val Ala Arg Leu Thr Val Val Met Phe Ile
 1 5 10 15

Cys His Arg Ser Lys Val His Lys Val Tyr Gln Ile Tyr Ile Tyr Leu
 20 25 30

Gly Tyr Leu Asp Arg Leu Leu Leu Phe Phe Phe Tyr Leu Ser Leu Gln
 35 40 45

Glu Phe Gly Asn Ser Leu Ser Leu Phe Leu Ile Leu Lys Ile Leu Asn
 50 55 60

Cys Asn Ser Phe Leu Leu Pro Asn Val Cys Val His Ile Gln Ser Asn
 65 70 75 80

Glu Thr Ile Ser Ser His Thr Thr Thr Gly Val Gly Thr Phe Ser Gln
 85 90 95

Ile Leu Met Cys Leu Tyr Val Asn Arg Cys Leu Tyr Glu Ile Phe Ser
 100 105 110

<210> 582

588

<211> 80

<212> PRT

<213> Homo sapiens

<400> 582

Val Glu Gly Ala Pro Cys Pro Thr Ser Pro Val Val Pro Arg Leu His
 1 5 10 15

Pro Val Ala Gly His Gly Pro Gly Pro Ser Cys Ile Cys Pro Phe Leu
 20 25 30

Gly Tyr Ser Cys Gly Arg Cys Pro Arg Gly Arg Ser Asn Gly Thr Pro
 35 40 45

Phe Pro Leu Pro Cys Pro Pro Pro Ala Ser Pro Pro Arg Pro Ala Thr
 50 55 60

Trp Pro Ser Pro Phe Arg Ser Ser Ser Cys Asn Lys Cys Phe Asn Phe
 65 70 75 80

<210> 583

<211> 424

<212> PRT

<213> Homo sapiens

<400> 583

Ala Glu Leu Pro Gly Gly Gln Asp Ala Gly Gly Gly Ala Leu Trp Pro
 1 5 10 15

Leu Cys Gly Ser Arg Gly Leu Cys Val Ser Asp Arg Phe Pro Gly Asn
 20 25 30

Phe Arg Ala Arg Leu Thr Ser Trp Lys Phe Lys Tyr Ser Ile Ala Leu
 35 40 45

Val Ile Leu Gly Asn Leu Glu Lys Arg Pro Gly Leu Arg Ile Gln Thr
 50 55 60

Trp Ala Leu Arg Trp Pro Arg Thr Cys Arg Leu His Leu Gln Pro Arg
 65 70 75 80

Ala Leu Pro Gly Ser Ser Met Ala Asp Gln Ala Pro Phe Asp Thr Asp
 85 90 95

Val Asn Thr Leu Thr Arg Phe Val Met Glu Glu Gly Arg Lys Ala Arg
 100 105 110

Gly Thr Gly Glu Leu Thr Gln Leu Leu Asn Ser Leu Cys Thr Ala Val
 115 120 125
 Lys Ala Ile Ser Ser Ala Val Arg Lys Ala Gly Ile Ala His Leu Tyr
 130 135 140
 Gly Ile Ala Gly Ser Thr Asn Val Thr Gly Asp Gln Val Lys Lys Leu
 145 150 155 160
 Asp Val Leu Ser Asn Asp Leu Val Met Asn Met Leu Lys Ser Ser Phe
 165 170 175
 Ala Thr Cys Val Leu Val Ser Glu Glu Asp Lys His Ala Ile Ile Val
 180 185 190
 Glu Pro Glu Lys Arg Gly Lys Tyr Val Val Cys Phe Asp Pro Leu Asp
 195 200 205
 Gly Ser Ser Asn Ile Asp Cys Leu Val Ser Val Gly Thr Ile Phe Gly
 210 215 220
 Ile Tyr Arg Lys Lys Ser Thr Asp Glu Pro Ser Glu Lys Asp Ala Leu
 225 230 235 240
 Gln Pro Gly Arg Asn Leu Val Ala Ala Gly Tyr Ala Leu Tyr Gly Ser
 245 250 255
 Ala Thr Met Leu Val Leu Ala Met Asp Cys Gly Val Asn Cys Phe Met
 260 265 270
 Leu Asp Pro Ala Ile Gly Glu Phe Ile Leu Val Asp Lys Asp Val Lys
 275 280 285
 Ile Lys Lys Lys Gly Lys Ile Tyr Ser Leu Asn Glu Gly Tyr Ala Lys
 290 295 300
 Asp Phe Asp Pro Ala Val Thr Glu Tyr Ile Gln Arg Lys Lys Phe Pro
 305 310 315 320
 Pro Asp Asn Ser Ala Pro Tyr Gly Ala Arg Tyr Val Gly Ser Met Val
 325 330 335
 Ala Asp Val His Arg Thr Leu Val Tyr Gly Gly Ile Phe Leu Tyr Pro
 340 345 350
 Ala Asn Lys Lys Ser Pro Asn Gly Lys Leu Arg Leu Leu Tyr Glu Cys
 355 360 365
 Asn Pro Met Ala Tyr Val Met Glu Lys Ala Gly Gly Met Ala Thr Thr
 370 375 380

590

Gly Lys Glu Ala Val Leu Asp Val Ile Pro Thr Asp Ile His Gln Arg
 385 390 395 400

Ala Pro Val Ile Leu Gly Ser Pro Asp Asp Val Leu Glu Phe Leu Lys
 405 410 415

Val Tyr Glu Lys His Ser Ala Gln
 420

<210> 584

<211> 64

<212> PRT

<213> Homo sapiens

<400> 584

Arg Leu Ala Ser Asp Asn Thr Gly Ile Ile Val Asn Asn Val Lys Leu
 1 5 10 15

Arg Phe Leu Ala Ser Ile Lys Gly Ala Val Ser Glu Met Ala Leu Ser
 20 25 30

Cys Gln Ser Phe Leu Phe Thr Phe Phe Phe Cys Pro Glu Cys Ile Cys
 35 40 45

Glu Glu Ser Leu Ile Leu Cys Phe Val Glu Ile Ser Thr Gln Pro Gln
 50 55 60

<210> 585

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 585

Leu Val Leu Lys Xaa Lys Ile Ile Gly Ile Ser Leu Leu Ser Gly Leu
 1 5 10 15

Leu His Arg Ala Phe Ser Val Phe Leu Phe Asn Thr Glu Asn Lys Leu
 20 25 30

591

Leu Leu Gln Gln Arg Ser Asp Ala Lys Ile Thr Phe Pro Gly Cys Phe
 35 40 45

Thr Asn Thr Cys Cys Ser His Pro Leu Ser Asn Pro Ala Glu Leu Glu
 50 55 60

Glu Ser Asp Ala Leu Gly Val Arg Arg Ala Ala Gln Arg Arg Leu Lys
 65 70 75 80

Ala Glu Leu Gly Ile Pro Leu Glu Glu Val Pro Pro Glu Glu Ile Asn
 85 90 95

Tyr Leu Thr Arg Ile His Tyr Lys Ala Gln Ser Asp Gly Ile Trp Gly
 100 105 110

Glu His Glu Ile Asp Tyr Ile Leu Leu Val Arg Lys Asn Val Thr Leu
 115 120 125

Asn Pro Asp Pro Asn Glu Ile Lys Ser Tyr Cys Tyr Val Ser Lys Glu
 130 135 140

Glu Leu Lys Glu Leu Leu Lys Lys Ala Ala Ser Gly Glu Ile Lys Ile
 145 150 155 160

Thr Pro Trp Phe Lys Ile Ile Ala Ala Thr Phe Leu Phe Lys Trp Trp
 165 170 175

Asp Asn Leu Asn His Leu Asn Gln Phe Val Asp His Glu Lys Ile Tyr
 180 185 190

Arg Met

<210> 586

<211> 243

<212> PRT

<213> Homo sapiens

<400> 586

Pro Ala Ala Thr Thr Ser Ser Ser Leu Leu Ala Leu His Arg Val Leu
 1 5 10 15

Pro Phe Gln Tyr Val Pro Ser Asp Glu Thr Ile Ser Ser Ala Glu Ser
 20 25 30

Phe Ser Thr Met Trp Lys Trp Ile Leu Thr His Cys Ala Ser Ala Phe
 35 40 45

592

Pro His Leu Pro Gly Cys Cys Cys Cys Cys Phe Leu Leu Leu Phe Leu
 50 55 60
 Val Ser Ser Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val
 65 70 75 80
 Ser Pro Glu Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser
 85 90 95
 Ser Ala Gly Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val
 100 105 110
 Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu
 115 120 125
 Lys Asn Gly Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser
 130 135 140
 Ile Leu Glu Ile Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala
 145 150 155 160
 Ile Asn Ser Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr
 165 170 175
 Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu
 180 185 190
 Glu Asn Gly Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly
 195 200 205
 Arg Gln Met Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly
 210 215 220
 Gln Lys Thr Arg Arg Lys Asn Thr Ser Ala His Phe Leu Pro Met Val
 225 230 235 240
 Val His Ser

<210> 587

<211> 366

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 587

Ser	His	Cys	Leu	Lys	Lys	Asn	Leu	Ser	Lys	Arg	Ser	Leu	Gln	Phe	Leu
1				5					10					15	

Gly	Lys	Gln	Ser	Ile	Leu	Ser	Val	Arg	Leu	Glu	Gln	Cys	Pro	Leu	Gln
			20					25					30		

Leu	Asn	Asn	Pro	Phe	Asn	Glu	Tyr	Ser	Lys	Phe	Xaa	Gly	Lys	Gly	His
			35				40					45			

Val	Gly	Thr	Thr	Ala	Thr	Lys	Lys	Ile	Asp	Val	Tyr	Leu	Pro	Leu	His
	50					55					60				

Ser	Ser	Gln	Asp	Arg	Leu	Leu	Pro	Met	Thr	Val	Val	Thr	Met	Ala	Ser
65					70					75					80

Ala	Arg	Val	Gln	Asp	Leu	Ile	Gly	Leu	Ile	Cys	Trp	Gln	Tyr	Thr	Ser
			85						90					95	

Glu	Asp	Gly	Ser	Arg	Ser	Ser	Met	Thr	Met	Ser	Val	Pro	Thr	Ala	Cys
			100				105						110		

Ile	Leu	Leu	Arg	Met	Met	Gly	Xaa	Trp	Thr	Pro	Ile	Phe	Pro	Arg	Trp
	115					120						125			

Xaa	Pro	Met	Xaa	Pro	Ile	His	Lys	Phe	Gly	Phe	Ser	Thr	Leu	Ala	Leu
	130					135					140				

Val	Glu	Lys	Tyr	Ser	Ser	Pro	Gly	Leu	Thr	Ser	Lys	Glu	Ser	Leu	Phe
145					150					155					160

Val	Arg	Ile	Asn	Ala	Ala	His	Gly	Phe	Ser	Leu	Ile	Gln	Val	Asp	Asn
			165						170					175	

Thr	Lys	Val	Thr	Met	Lys	Glu	Ile	Leu	Leu	Lys	Ala	Val	Lys	Arg	Arg
		180					185						190		

594

Lys Gly Ser Gln Lys Val Ser Gly Ser Arg Ala Asp Gly Val Phe Glu
 195 200 205

Glu Asp Ser Gln Ile Asp Ile Ala Thr Val Gln Asp Met Leu Ser Ser
 210 215 220

His His Tyr Lys Ser Phe Lys Val Ser Met Ile His Arg Leu Arg Phe
 225 230 235 240

Thr Thr Asp Val Gln Leu Gly Ile Ser Gly Asp Lys Val Glu Ile Asp
 245 250 255

Pro Val Thr Asn Gln Lys Ala Ser Thr Lys Phe Trp Ile Lys Gln Lys
 260 265 270

Pro Ile Ser Ile Asp Ser Asp Leu Leu Cys Ala Cys Asp Leu Ala Glu
 275 280 285

Glu Lys Ser Pro Ser His Ala Ile Phe Lys Leu Thr Tyr Leu Ser Asn
 290 295 300

His Asp Tyr Lys His Leu Tyr Phe Glu Ser Asp Ala Ala Thr Val Asn
 305 310 315 320

Glu Ile Val Leu Lys Val Asn Tyr Ile Leu Glu Ser Arg Ala Ser Thr
 325 330 335

Ala Arg Ala Asp Tyr Phe Ala Gln Lys Gln Arg Lys Leu Asn Arg Arg
 340 345 350

Thr Ser Phe Ser Phe Gln Lys Glu Lys Lys Ser Gly Gln Gln
 355 360 365

<210> 588

<211> 109

<212> PRT

<213> Homo sapiens

<400> 588

Cys Cys Lys Ser Gly Trp Ala Ile His Ser Leu Ser Glu Leu Thr Glu
 1 5 10 15

Leu Glu Leu Ala Val Lys Cys Ser Ala Glu Thr Glu His Leu Thr Asp
 20 25 30

Ile Phe Leu Gln Lys Met Val Leu Gly Asn Lys Ile Ile Thr Ile Arg
 35 40 45

595

Glu Trp Leu Val Val Ser Thr Val Ala Asn Ala Asn Cys Trp Asn Ser
 50 55 60
 Leu Tyr Cys Arg Lys Thr Gln Thr Glu Thr Leu Lys Phe Cys Leu Ala
 65 70 75 80
 Met Cys Phe Trp Tyr Glu Thr Asn Tyr Cys Val Thr Val Gln Val Gly
 85 90 95
 Asn Asn Ser Phe Asn Trp Val Phe Ser Ile Asn Gly Asn
 100 105

<210> 589
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 589
 Ser Cys Arg Arg Gly Arg Asp His Ser Gly Ser Gly Val Gly Thr Ala
 1 5 10 15
 Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
 20 25 30
 Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
 35 40 45
 Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
 50 55 60
 Glu Ile Ile Ser Gly Arg Met Thr Phe Gly
 65 70

<210> 590
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 590
 Val Ile Met Tyr Ile Leu Gln Ser Gly Gly Trp Gln Asp Gly Asp Ile
 1 5 10 15
 Glu His Asp Cys Ser Leu Ser Leu Phe Ser Ala Tyr Gly Tyr Leu Ser
 20 25 30
 Ser Ile Ser Ile Cys Ile Phe Ser Ser Phe His Phe Arg Lys Gln Ser
 35 40 45

596

Cys Gln Leu Lys Gln Lys Lys Lys Lys Lys Ser Ser Arg Gln His
 50 55 60
 Thr Val Glu Ser Cys Thr His Thr Ser Ala Gln Ala Arg Cys Leu Ala
 65 70 75 80
 Glu Pro Gln Ser Gly Lys Arg Val Pro Ala Ser Gly Phe Leu Gly Ile
 85 90 95
 Asn Phe Ile Thr Val Tyr Leu Ser His Cys Gly His Ala Ile Trp Gln
 100 105 110
 Gly Glu Asn Gly Arg Leu Gly Leu Leu Cys Glu Ala Val
 115 120 125

<210> 591

<211> 359

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 591

Pro Val Phe Phe Ser Leu Leu Leu Leu Gln Lys Gln Trp Xaa Cys Leu
 1 5 10 15

Leu Asp Ser Lys Trp Ala Lys Ala Lys Lys Gly Glu Glu Ala Leu Phe
 20 25 30

Thr Thr Arg Glu Ser Val Val Asp Tyr Cys Asn Arg Leu Leu Lys Lys
 35 40 45

Gln Phe Phe His Arg Ala Leu Lys Val Met Lys Met Lys Tyr Asp Lys
 50 55 60

Asp Ile Lys Lys Glu Lys Asp Lys Gly Lys Ala Glu Ser Gly Lys Glu
 65 70 75 80

Glu Asp Lys Lys Ser Lys Lys Glu Asn Ile Lys Asp Glu Lys Thr Lys
 85 90 95

Lys Glu Lys Glu Lys Lys Lys Asp Gly Glu Lys Glu Glu Ser Lys Lys
 100 105 110

Glu Glu Thr Pro Gly Thr Pro Lys Lys Lys Glu Thr Lys Lys Lys Phe

597

115	120	125
Lys Leu Glu Pro His Asp Asp Gln Val Phe Leu Asp Gly Asn Glu Val		
130	135	140
Tyr Val Trp Ile Tyr Asp Pro Val His Phe Lys Thr Phe Val Met Gly		
145	150	155
		160
Leu Ile Leu Val Ile Ala Val Ile Ala Ala Thr Leu Phe Pro Leu Trp		
	165	170
		175
Pro Ala Glu Met Arg Val Gly Val Tyr Tyr Leu Ser Val Gly Ala Gly		
	180	185
		190
Cys Phe Val Ala Ser Ile Leu Leu Leu Ala Val Ala Arg Cys Ile Leu		
	195	200
		205
Phe Leu Ile Ile Trp Leu Ile Thr Gly Gly Arg His His Phe Trp Phe		
	210	215
		220
Leu Pro Asn Leu Thr Ala Asp Val Gly Phe Ile Asp Ser Phe Arg Pro		
	225	230
		235
		240
Leu Tyr Thr His Glu Tyr Lys Gly Pro Lys Ala Asp Leu Lys Lys Asp		
	245	250
		255
Glu Lys Ser Glu Thr Lys Lys Gln Gln Lys Ser Asp Ser Glu Glu Lys		
	260	265
		270
Ser Asp Ser Glu Lys Lys Glu Asp Glu Glu Gly Lys Val Gly Pro Gly		
	275	280
		285
Asn His Gly Thr Glu Gly Ser Gly Gly Glu Arg His Ser Asp Thr Asp		
	290	295
		300
Ser Asp Arg Arg Glu Asp Asp Arg Ser Gln His Ser Ser Gly Asn Gly		
	305	310
		315
		320
Asn Asp Phe Glu Met Ile Thr Lys Glu Glu Leu Glu Gln Gln Thr Asp		
	325	330
		335
Gly Asp Cys Glu Glu Asp Glu Glu Glu Glu Asn Asp Gly Glu Thr Pro		
	340	345
		350
Lys Ser Ser His Glu Lys Ser		
	355	

<210> 592

<211> 111

598

<212> PRT
<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 592

Val Leu Cys Gln Asn Cys Gln Ser Val Val Glu Tyr Ser Lys Asn Asn
1 5 10 15

Lys Gly Cys Glu Gln Ser Arg Met Val Phe Xaa Leu Tyr Ser Arg Asp
20 25 30

Ser Gly Pro Pro Pro Ser Thr Val Ser Glu Ala Glu Phe Glu Asp Ile
35 40 45

Met Lys Arg Asn Arg Ala Ile Ser Ser Ser Pro Ile Ser Lys Ala Val
50 55 60

Ser Gly Ala Ser Ala Gly Asp Tyr Ser Asp Ala Ile Glu Thr Leu Leu
65 70 75 80

Thr Ala Ile Ala Val Ile Lys Gln Ser Arg Val Ala Asn Asp Glu Arg
85 90 95

Cys Arg Val Leu Ile Ser Ser Leu Lys Asp Cys Leu His Gly His
100 105 110

<210> 593

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

599

<400> 593

Lys Thr Gly Lys Ile Leu Ala Asn Met Glu Leu Pro Gly Ser Ser Leu
 1 5 10 15

Asn Ile Leu Thr Val Tyr Ala Arg Glu His Thr Phe Ser Phe Glu Asn
 20 25 30

Ser Ala Ser Ser Lys Pro Pro Pro Thr Ile Gly Tyr His Phe Tyr Gly
 35 40 45

Pro Ser Gly Asp Ala Ser Glu Leu Trp Xaa Lys Asn Gly Asp Leu Leu
 50 55 60

Thr Met Lys Glu Tyr His Cys Leu Leu Gln Leu Leu Cys Pro Asp Phe
 65 70 75 80

Pro Leu Glu Leu Xaa Gln Lys Ala Ala Arg Ile Val Leu Met Asp Asp
 85 90 95

Ala Met Asp Cys Leu Met Ser Phe Ser Asp Phe Leu Phe Ala Phe Gln
 100 105 110

Ile Gln Phe Tyr Tyr Ser Glu Phe Leu Asp Ser Val Ala Ala Ile Tyr
 115 120 125

Glu Asp Leu Leu Ser Gly Lys Asn Pro Asn Thr Val Ile Gly Ala Asp
 130 135 140

Leu Val Gln Trp Ala Ala Pro Pro Arg Pro Ala Leu Gly Xaa Ala Arg
 145 150 155 160

His Ala

<210> 594

<211> 195

<212> PRT

<213> Homo sapiens

<400> 594

Ser Val Ala Ser Ser Arg Gly Thr Ala Cys Asp Leu Pro Ala Arg Gly
 1 5 10 15

Pro Met Leu Pro Ala Ala Ala Arg Pro Leu Trp Gly Pro Cys Leu Gly
 20 25 30

Leu Arg Ala Ala Ala Phe Arg Leu Ala Arg Arg Gln Val Pro Cys Val
 35 40 45

600

Cys Ala Val Arg His Met Arg Ser Ser Gly His Gln Arg Cys Glu Ala
 50 55 60

Leu Ala Gly Ala Pro Leu Asp Asn Ala Pro Lys Glu Tyr Pro Pro Lys
 65 70 75 80

Ile Gln Gln Leu Val Gln Asp Ile Ala Ser Leu Thr Leu Leu Glu Ile
 85 90 95

Ser Asp Leu Asn Glu Leu Leu Lys Lys Thr Leu Lys Ile Gln Asp Val
 100 105 110

Gly Leu Val Pro Met Gly Gly Val Met Ser Gly Ala Val Pro Ala Ala
 115 120 125

Ala Ala Gln Glu Ala Val Glu Glu Asp Ile Pro Ile Ala Lys Glu Arg
 130 135 140

Thr His Phe Thr Val Arg Leu Thr Glu Ala Asn Arg Gly Gln Ser Glu
 145 150 155 160

Ala Asp Gln Gly Asn Gln Glu Leu His Pro Arg His Gln Pro Arg Pro
 165 170 175

Gly Lys Glu Ala Gly Gly Val Pro Ala Pro Gly Asn Gln Ser Gln Cys
 180 185 190

Arg Gln Ser
 195

<210> 595

<211> 99

<212> PRT

<213> Homo sapiens

<400> 595

Ala Pro Gln Trp Gln Val His Leu Gln Val Pro Gly Leu Tyr Tyr Phe
 1 5 10 15

Thr Tyr His Ala Ser Ser Arg Gly Asn Leu Cys Val Asn Leu Met Arg
 20 25 30

Gly Arg Glu Arg Ala Gln Lys Val Val Thr Phe Cys Asp Tyr Ala Tyr
 35 40 45

Asn Thr Phe Gln Val Thr Thr Gly Gly Met Val Leu Lys Leu Glu Gln
 50 55 60

601

Gly Glu Asn Val Phe Leu Gln Ala Thr Asp Lys Asn Ser Leu Leu Gly
 65 70 75 80

Met Glu Gly Ala Asn Ser Ile Phe Ser Gly Phe Leu Leu Phe Pro Asp
 85 90 95

Met Glu Ala

<210> 596

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 596

Ala Glu Asp Pro Ala Gly Gly Leu Ala Gly Gln Asp Thr Met Phe Ala
 1 5 10 15

Arg Gly Leu Lys Arg Lys Cys Val Gly His Glu Glu Asp Val Glu Gly
 20 25 30

Ala Leu Ala Gly Leu Lys Thr Val Ser Ser Tyr Ser Leu Gln Arg Gln
 35 40 45

Ser Leu Leu Asp Met Ser Leu Val Lys Leu Gln Leu Cys His Met Leu
 50 55 60

Val Glu Pro Asn Leu Cys Arg Ser Val Leu Ile Ala Asn Thr Val Arg
 65 70 75 80

Gln Ile Gln Glu Glu Met Thr Gln Asp Gly Thr Trp Arg Thr Val Ala
 85 90 95

Pro Gln Ala Ala Glu Arg Ala Pro Xaa Asp Arg Leu Val Ser Thr Glu
 100 105 110

Ile Leu Cys Arg Ala Ala Trp Gly Gln Glu Gly Ala His Pro Ala Pro
 115 120 125

Gly Leu Gly Asp Gly His Thr Gln Gly Pro Val Ser Asp Leu Cys Pro
 130 135 140

Val Thr Ser Ala Gln Ala Pro Arg His Leu Gln Ser Ser Ala Trp Glu
 145 150 155 160

602

Met Asp Gly Pro Arg Glu Asn Arg Gly Ser Phe His Lys Ser Leu Asp
 165 170 175

Gln Ile Phe Glu Thr Leu Glu Thr Lys Asn Pro Ser Cys Met Glu Glu
 180 185 190

Leu Phe Ser Asp Val Asp Ser Pro Tyr Tyr Asp Leu Asp Thr Val Leu
 195 200 205

Thr Gly Met Met Gly Gly Ala Arg Pro Gly Pro Cys Glu Gly Leu Glu
 210 215 220

Gly Leu Ala Pro Ala Thr Pro Gly Pro Ser Ser Ser Cys Lys Ser Asp
 225 230 235 240

Leu Gly Glu Leu Asp His Val Val Glu Ile Leu Val Glu Thr
 245 250

<210> 597

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 597

Cys Ser Met Val Pro Ser Ser Ala Ser Xaa Gln Val Arg Ser His Tyr
 1 5 10 15

Val Asp Trp Arg Met Trp Arg Asp Val Lys Arg Arg Lys Met Ala Tyr
 20 25 30

Glu Tyr Ala Asp Glu Arg Leu Arg Ile Asn Ser Leu Arg Lys Asn Thr
 35 40 45

Ile Leu Pro Lys Ile Leu Gln Asp Val Ala Asp Glu Glu Ile Ala Ala
 50 55 60

Leu Pro Arg Asp Ser Cys Pro Val Arg Ile Arg Asn Arg Cys Val Met
 65 70 75 80

Thr Ser Arg Pro Arg Gly Val Lys Arg Arg Trp Arg Leu Ser Arg Ile
 85 90 95

Val Phe Arg His Leu Ala Asp His Gly Gln Leu Ser Gly Ile Gln Arg

603

```

100
105
110

Ala Thr Trp
115

<210> 598
<211> 99
<212> PRT
<213> Homo sapiens

<400> 598
Ala Arg Pro Cys Met Asn Ser Thr Lys Ala Leu Pro His Gly Arg Glu
1 5 10 15
His Thr Arg Leu Lys Met Leu Ser Tyr Leu Lys Asn Lys Met Cys Lys
20 25 30
Ser Ser Gly Trp His Lys Thr Lys Val Asn Ala Ser Trp Gly Thr Phe
35 40 45
Leu Arg Gly Leu Ala Glu Cys Val Asn Ile Ile Asp Phe Cys Leu Cys
50 55 60
Tyr Met Thr Ser Val Thr Ser Leu Lys Ile Cys Thr Ile Gln Phe Gln
65 70 75 80
Leu Trp Ile Thr Ser Val Asp Leu Cys Glu Gly Phe Tyr Leu Cys Arg
85 90 95
Met Gly Val

```

604

```

                20                25                30
Arg Lys Ala Phe Asp Met Ile Ser Gln Arg Ser Ala Gly Gly Arg Pro
   35                40                45
Gly Ser Gly Pro Gln Leu Gly Xaa Gly Arg Gly Thr Leu Arg Leu Arg
   50                55                60
Ser Arg Gly Pro Ala Thr Val Glu Asp Leu Pro Ser Ala Phe Glu Glu
   65                70                75                80
Lys Ala Ile Glu Lys Val Asp Asp Leu Leu Glu Ser Tyr Met Gly Ile
                85                90                95
Arg Asp Thr Glu Leu Ala Ala Thr Met Val Glu Leu Gly Lys Asp Lys
                100                105                110
Arg Asn Pro Asp Glu Leu Ala Glu Ala Leu Asp Glu Arg Leu Gly Asp
                115                120                125
Phe Ala Phe Pro Asp Glu Phe Val Phe Asp Val Trp Gly Ala Ile Gly
                130                135                140
Asp Ala Lys Val Gly Arg Tyr
145                150

```

<210> 600

<211> 315

<212> PRT

<213> Homo sapiens

<400> 600

```

Ser Thr His Ala Ser Gly Ala Ser Gly Gly Ala Gln Val Ala Gly Arg
   1                5                10                15
Leu Gly Leu Gly Cys Pro Leu His Leu His Val Phe Ala Val Val Ser
                20                25                30
Ala Met Leu Pro Leu Leu Arg Cys Val Pro Arg Val Leu Gly Ser Ser
                35                40                45
Val Ala Gly Leu Arg Ala Ala Ala Pro Ala Ser Pro Phe Arg Gln Leu
                50                55                60
Leu Gln Pro Ala Pro Arg Leu Cys Thr Arg Pro Phe Gly Leu Leu Ser
                65                70                75                80
Val Arg Ala Gly Ser Glu Arg Arg Pro Gly Leu Leu Arg Pro Arg Gly
                85                90                95

```

605

```

Pro Cys Ala Cys Gly Cys Gly Cys Gly Ser Leu His Thr Asp Gly Asp
      100                      105                      110

Lys Ala Phe Val Asp Phe Leu Ser Asp Glu Ile Lys Glu Glu Arg Lys
      115                      120                      125

Ile Gln Lys His Lys Thr Leu Pro Lys Met Ser Gly Gly Trp Glu Leu
      130                      135                      140

Glu Leu Asn Gly Thr Glu Ala Lys Leu Val Arg Lys Val Ala Gly Glu
145                      150                      155                      160

Lys Ile Thr Val Thr Phe Asn Ile Asn Asn Ser Ile Pro Pro Thr Phe
      165                      170                      175

Asp Gly Glu Glu Glu Pro Ser Gln Gly Gln Lys Val Glu Glu Gln Glu
      180                      185                      190

Pro Glu Leu Thr Ser Thr Pro Asn Phe Val Val Glu Val Ile Lys Asn
      195                      200                      205

Asp Asp Gly Lys Lys Ala Leu Val Leu Asp Cys His Tyr Pro Glu Asp
      210                      215                      220

Glu Val Gly Gln Glu Asp Glu Ala Glu Ser Asp Ile Phe Ser Ile Arg
225                      230                      235                      240

Glu Val Ser Phe Gln Ser Thr Gly Glu Ser Glu Trp Lys Asp Thr Asn
      245                      250                      255

Tyr Thr Leu Asn Thr Asp Ser Leu Asp Trp Ala Leu Tyr Asp His Leu
      260                      265                      270

Met Asp Phe Leu Ala Asp Arg Gly Val Asp Asn Thr Phe Ala Asp Glu
      275                      280                      285

Leu Val Glu Leu Ser Thr Ala Leu Glu His Gln Glu Tyr Ile Thr Phe
      290                      295                      300

Leu Glu Asp Leu Lys Ser Phe Val Lys Ser Gln
305                      310                      315

```

<210> 601

<211> 167

<212> PRT

<213> Homo sapiens

<400> 601

606

Gly Arg Gly Ser Ala Lys Lys Arg Pro Leu Pro Leu Val Gly Ile Gly
 1 5 10 15
 Met Ser Lys Asn Thr Val Ser Ser Ala Arg Phe Arg Lys Val Asp Val
 20 25 30
 Asp Glu Tyr Asp Glu Asn Lys Phe Val Asp Glu Glu Asp Gly Gly Asp
 35 40 45
 Gly Gln Ala Gly Pro Asp Glu Gly Glu Val Asp Ser Cys Leu Arg Gln
 50 55 60
 Gly Asn Met Thr Ala Ala Leu Gln Ala Ala Leu Lys Asn Pro Pro Ile
 65 70 75 80
 Asn Thr Lys Ser Gln Ala Val Lys Asp Arg Ala Gly Ser Ile Val Leu
 85 90 95
 Lys Val Leu Ile Ser Phe Lys Ala Asn Asp Ile Glu Lys Ala Val Gln
 100 105 110
 Ser Leu Asp Lys Asn Gly Val Asp Leu Leu Met Lys Tyr Ile Tyr Lys
 115 120 125
 Gly Phe Glu Ser Pro Ser Asp Asn Ser Ser Ala Met Leu Leu Gln Trp
 130 135 140
 His Glu Lys Ala Leu Ala Ala Gly Gly Val Gly Ser Ile Val Arg Val
 145 150 155 160
 Leu Thr Ala Arg Lys Thr Val
 165

<210> 602

<211> 78

<212> PRT

<213> Homo sapiens

<400> 602

Leu Cys Phe Cys Leu Pro Pro Asp Tyr Leu Tyr Cys Gly Phe Lys Tyr
 1 5 10 15
 Ala Thr Phe Ser Gln His Pro Ile Ile Met Ala Pro Gln Phe Ile Cys
 20 25 30
 Gly His Pro Gly Phe Arg Ala Arg Ser Leu Ala Leu Tyr Lys Cys Ile
 35 40 45
 His Lys Ile Ser Glu Leu Val Gly His Glu His Gln Thr Phe Val Pro

607

50 55 60
 Leu Ile Trp Leu Cys Leu Glu Lys Thr Ala Asn Gln Lys Glu
 65 70 75

 <210> 603
 <211> 47
 <212> PRT
 <213> Homo sapiens

 <400> 603
 Ala His Ala Ser Ala Trp Leu Leu Ser Glu Lys Lys Gly Val Trp Gly
 1 5 10 15

 Val Phe Tyr Lys Ala Ala Val Ile Gly Thr Arg Leu His Ala Ala Val
 20 25 30

 Ala Ile Ala Cys Val Val Met Ala Phe Tyr Val Leu Phe Ile Lys
 35 40 45

 <210> 604
 <211> 227
 <212> PRT
 <213> Homo sapiens

 <400> 604
 Val Gly Gly Ala Ser Arg Leu Leu Leu Arg Ile Ser Val Asp Leu Met
 1 5 10 15

 Glu Ala Lys Thr Leu Gly Thr Val Thr Pro Arg Lys Pro Val Leu Ser
 20 25 30

 Val Ser Ala Arg Lys Ile Lys Asp Asn Ala Ala Asp Trp His Asn Leu
 35 40 45

 Ile Leu Lys Trp Glu Thr Leu Asn Asp Ala Gly Phe Thr Thr Ala Asn
 50 55 60

 Asn Ile Ala Asn Leu Lys Ile Ser Leu Leu Asn Lys Asp Lys Ile Glu
 65 70 75 80

 Leu Asp Ser Ser Ser Pro Ala Ser Lys Glu Asn Glu Glu Lys Val Cys
 85 90 95

 Leu Glu Tyr Asn Glu Glu Leu Glu Lys Leu Cys Glu Glu Leu Gln Ala
 100 105 110

608

Thr Leu Asp Gly Leu Thr Lys Ile Gln Val Lys Met Glu Lys Leu Ser
 115 120 125
 Ser Thr Thr Lys Gly Ile Cys Glu Leu Glu Asn Tyr His Tyr Gly Glu
 130 135 140
 Glu Ser Lys Arg Pro Pro Leu Phe His Thr Trp Pro Thr Thr His Phe
 145 150 155 160
 Tyr Glu Val Ser His Lys Leu Leu Glu Met Tyr Arg Lys Glu Leu Leu
 165 170 175
 Leu Lys Arg Thr Val Ala Lys Glu Leu Ala His Thr Gly Asp Pro Asp
 180 185 190
 Leu Thr Leu Ser Tyr Leu Ser Met Trp Leu His Gln Pro Tyr Val Glu
 195 200 205
 Ser Asp Ser Arg Leu His Leu Glu Ser Met Leu Leu Glu Thr Gly His
 210 215 220
 Arg Ala Leu
 225

<210> 605

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 605

Asn Glu Ile His Trp Ala Ala Val His Trp Ala Arg Pro Cys Ser Ser
 1 5 10 15

Gly Gly Phe His Asp Ala Ser His Ile Gln Cys Phe Pro Ser Lys Pro

609

20	25	30
His Pro Cys Arg Ser Ala Val Leu Pro Gln Gln Ala Phe Ala Leu Ser		
35	40	45
Gly Ser Leu Leu Trp Phe Leu Ser Glu Ile Leu Phe Ile Phe Phe Leu		
50	55	60
Ile Thr Ala Leu Leu Arg Tyr Asn Ser His Ala Xaa Gln Phe Thr Tyr		
65	70	75
Thr Val Tyr Asn Ser Val Val Phe Thr Ile Phe Xaa Val Val Gln Leu		
85	90	95
Ser Phe Phe Ser Pro Pro Lys Xaa Thr Leu Cys Pro Leu Val Phe Thr		
100	105	110
Leu Phe Ser His Asn Ser Arg		
115		

<210> 606

<211> 406

<212> PRT

<213> Homo sapiens

<400> 606

Val Val Arg Leu Gln Arg Leu Phe Pro Gly Arg Thr Met Asp Ser Gln		
1	5	10
Gly Arg Lys Val Val Val Cys Asp Asn Gly Thr Gly Phe Val Lys Cys		
20	25	30
Gly Tyr Ala Gly Ser Asn Phe Pro Glu His Ile Phe Pro Ala Leu Val		
35	40	45
Gly Arg Pro Ile Ile Arg Ser Thr Thr Lys Val Gly Asn Ile Glu Ile		
50	55	60
Lys Asp Leu Met Val Gly Asp Glu Ala Ser Glu Leu Arg Ser Met Leu		
65	70	75
Glu Val Asn Tyr Pro Met Glu Asn Gly Ile Val Arg Asn Trp Asp Asp		
85	90	95
Met Lys His Leu Trp Asp Tyr Thr Phe Gly Pro Glu Lys Leu Asn Ile		
100	105	110
Asp Thr Arg Asn Cys Lys Ile Leu Leu Thr Glu Pro Pro Met Asn Pro		
115	120	125

610

Thr	Lys	Asn	Arg	Glu	Lys	Ile	Val	Glu	Val	Met	Phe	Glu	Thr	Tyr	Gln	130	135	140	
Phe	Ser	Gly	Val	Tyr	Val	Ala	Ile	Gln	Ala	Val	Leu	Thr	Leu	Tyr	Ala	145	150	155	160
Gln	Gly	Leu	Leu	Thr	Gly	Val	Val	Val	Asp	Ser	Gly	Asp	Gly	Val	Thr	165	170	175	
His	Ile	Cys	Pro	Val	Tyr	Glu	Gly	Phe	Ser	Leu	Pro	His	Leu	Thr	Arg	180	185	190	
Arg	Leu	Asp	Ile	Ala	Gly	Arg	Asp	Ile	Thr	Arg	Tyr	Leu	Ile	Lys	Leu	195	200	205	
Leu	Leu	Leu	Arg	Gly	Tyr	Ala	Phe	Asn	His	Ser	Ala	Asp	Phe	Glu	Thr	210	215	220	
Val	Arg	Met	Ile	Lys	Glu	Lys	Leu	Cys	Tyr	Val	Gly	Tyr	Asn	Ile	Glu	225	230	235	240
Gln	Glu	Gln	Lys	Leu	Ala	Leu	Glu	Thr	Thr	Val	Leu	Val	Glu	Ser	Tyr	245	250	255	
Thr	Leu	Pro	Asp	Gly	Arg	Ile	Ile	Lys	Val	Gly	Gly	Glu	Arg	Phe	Glu	260	265	270	
Ala	Pro	Glu	Ala	Leu	Phe	Gln	Pro	His	Leu	Ile	Asn	Val	Glu	Gly	Val	275	280	285	
Gly	Val	Ala	Glu	Leu	Leu	Phe	Asn	Thr	Ile	Gln	Ala	Ala	Asp	Ile	Asp	290	295	300	
Thr	Arg	Ser	Glu	Phe	Tyr	Lys	His	Ile	Val	Leu	Ser	Gly	Gly	Ser	Thr	305	310	315	320
Met	Tyr	Pro	Gly	Leu	Pro	Ser	Arg	Leu	Glu	Arg	Glu	Leu	Lys	Gln	Leu	325	330	335	
Tyr	Leu	Glu	Arg	Val	Leu	Lys	Gly	Asp	Val	Glu	Lys	Leu	Ser	Lys	Phe	340	345	350	
Lys	Ile	Arg	Ile	Glu	Asp	Pro	Pro	Arg	Arg	Lys	His	Met	Val	Phe	Leu	355	360	365	
Gly	Gly	Ala	Val	Leu	Ala	Asp	Ile	Met	Lys	Asp	Lys	Asp	Asn	Phe	Trp	370	375	380	
Met	Thr	Arg	Gln	Glu	Tyr	Gln	Glu	Lys	Gly	Val	Arg	Val	Leu	Glu	Lys	385	390	395	400

611

Leu Gly Val Thr Val Arg
405

<210> 607

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 607

Gly Ser Gly Gly Asn His Ser Val Cys Cys Asp Thr Met Glu Gly Gly
1 5 10 15

Gly Gly Ser Gly Asn Lys Thr Thr Gly Gly Leu Ala Gly Phe Phe Gly
20 25 30

Ala Gly Gly Xaa Gly Tyr Ser His Ala Asp Leu Ala Gly Val Pro Leu
35 40 45

Thr Gly Met Asn Pro Leu Ser Pro Tyr Leu Asn Val Asp Pro Arg Tyr
50 55 60

Leu Val Gln Asp Thr Asp Glu Phe Ile Leu Pro Thr Gly Ala Asn Lys
65 70 75 80

Thr Arg Gly Arg Phe Glu Leu Ala Phe Phe Thr Ile Gly Gly Cys Cys
85 90 95

Met Thr Gly Ala Ala Phe Gly Ala Met Asn Gly Leu Arg Leu Gly Leu
100 105 110

Lys Glu Thr Gln Asn Met Ala Trp Ser Lys Pro Arg Asn Val Gln Ile
115 120 125

Leu Asn Met Val Thr Arg Gln Gly Ala Leu Trp Ala Asn Thr Leu Gly
130 135 140

Ser Leu Ala Leu Leu Tyr Ser Ala Phe Gly Val Ile Ile Glu Lys Thr
145 150 155 160

Arg Gly Ala Glu Asp Asp Leu Asn Thr Val Ala Ala Gly Thr Met Thr
165 170 175

Gly Met Leu Tyr Lys Cys Thr Gly Gly Leu Arg Gly Ile Ala Arg Gly

612

180 185 190

Gly Leu Thr Gly Leu Thr Leu Thr Ser Leu Tyr Ala Leu Tyr Asn Asn
 195 200 205

Trp Glu His Met Lys Gly Ser Leu Leu Gln Gln Ser Leu
 210 215 220

<210> 608
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 608

Gln Asn Ala Gly Ile Thr Gly Val Ser Tyr His Ala His Leu Phe Ile
 1 5 10 15

Tyr Leu Phe Ile Tyr Leu Phe Leu Arg Leu Arg Phe Lys Lys Lys Thr
 20 25 30

Lys Lys Thr Lys Pro Lys Asn Lys Lys Thr His Gln Leu Asp Ile Leu
 35 40 45

Glu Ala Phe Pro Asp Ser Gly Leu Val Ser Arg Leu Ala Phe Lys Arg
 50 55 60

Lys Ser Cys Pro Tyr Arg Phe Pro Asp Leu Ser Tyr Pro
 65 70 75

<210> 609
 <211> 297
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 609

Pro Thr Glu Thr Gly His Trp Thr Gly Ser Ala Met Arg Leu Leu Pro
 1 5 10 15

Arg Leu Leu Leu Leu Leu Leu Val Phe Pro Ala Thr Val Leu Phe
 20 25 30

Arg Gly Gly Pro Arg Gly Xaa Leu Ala Val Ala Gln Asp Leu Thr Glu

613

35	40	45
Asp Glu Glu Thr Val Glu Asp Ser Ile Ile Glu Asp Glu Asp Asp Glu		
50	55	60
Ala Glu Val Glu Glu Asp Glu Pro Thr Asp Leu Val Glu Asp Lys Glu		
65	70	75 80
Glu Glu Asp Val Ser Gly Glu Pro Glu Ala Ser Pro Ser Ala Asp Thr		
	85	90 95
Thr Ile Leu Phe Val Lys Gly Glu Asp Phe Pro Ala Asn Asn Ile Val		
	100	105 110
Lys Phe Leu Val Gly Phe Thr Asn Lys Gly Thr Glu Asp Phe Ile Val		
	115	120 125
Glu Ser Leu Asp Ala Ser Phe Arg Tyr Pro Gln Asp Tyr Gln Phe Tyr		
	130	135 140
Ile Gln Asn Phe Thr Ala Leu Pro Leu Asn Thr Val Val Pro Pro Gln		
	145	150 155 160
Arg Gln Ala Thr Phe Glu Tyr Ser Phe Ile Pro Ala Glu Pro Met Gly		
	165	170 175
Gly Arg Pro Phe Gly Leu Val Ile Asn Leu Asn Tyr Lys Asp Leu Asn		
	180	185 190
Gly Asn Val Phe Gln Asp Ala Val Phe Asn Gln Thr Val Thr Val Ile		
	195	200 205
Glu Arg Glu Asp Gly Leu Asp Gly Glu Thr Ile Phe Met Tyr Met Phe		
	210	215 220
Leu Ala Gly Leu Gly Leu Leu Val Ile Val Gly Leu His Gln Leu Leu		
	225	230 235 240
Glu Ser Arg Lys Arg Lys Arg Pro Ile Gln Lys Val Glu Met Gly Thr		
	245	250 255
Ser Ser Gln Asn Asp Val Asp Met Ser Trp Ile Pro Gln Glu Thr Leu		
	260	265 270
Asn Gln Ile Asn Lys Ala Ser Pro Arg Arg Leu Pro Arg Lys Arg Ala		
	275	280 285
Gln Lys Arg Ser Val Gly Ser Asp Glu		
	290	295

614

<210> 610
 <211> 162
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 610
 Arg Xaa Thr Arg Pro Cys Glu Asp Gly Ala Leu Gln Gly Val Leu Gly
 1 5 10 15
 Ser Val Gly Cys Val Gly Leu Gly Ser His Pro Trp Thr Phe Cys His
 20 25 30
 Pro Glu Leu Gln Leu Gly Arg Ser Gly Leu Ala Trp Gly Ala Pro Arg
 35 40 45
 Ser Ser Lys Leu His Leu Ser Pro Lys Ala Asp Val Lys Asn Leu Met
 50 55 60
 Ser Tyr Val Val Thr Lys Thr Lys Ala Ile Asn Gly Lys Tyr His Arg
 65 70 75 80
 Phe Leu Gly Arg His Phe Pro Arg Phe Tyr Xaa Leu Tyr Thr Ile Phe
 85 90 95
 Met Lys Glu Ser Leu Glu Pro Gly His Ala Ser His Ile Leu Pro Ala
 100 105 110
 Ser Ser Leu Val Glu Thr Ser Phe Glu Asp Ser Tyr Asn Cys Asp Ser
 115 120 125
 Pro Thr Gly Gln Gly Phe Gly Lys Ala Gly Asp Trp Pro Ala Asp Cys
 130 135 140
 Ser Gly Ser Lys Ile Gly Leu Leu Ser Pro Trp Pro Glu Phe Tyr Ala
 145 150 155 160
 Tyr Trp

615

<210> 611
 <211> 351
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (307)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (335)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 611
 Glu Met Trp Leu Leu Tyr Leu Leu Val Pro Ala Leu Phe Cys Arg Ala
 1 5 10 15
 Gly Gly Ser Ile Pro Ile Pro Gln Lys Leu Phe Gly Glu Val Thr Ser
 20 25 30
 Pro Leu Phe Pro Lys Pro Tyr Pro Asn Asn Phe Glu Thr Thr Thr Val
 35 40 45
 Ile Thr Val Pro Thr Gly Tyr Arg Val Lys Leu Val Phe Gln Gln Phe
 50 55 60
 Asp Leu Glu Pro Ser Glu Gly Cys Phe Tyr Asp Tyr Val Lys Ile Ser
 65 70 75 80
 Ala Asp Lys Lys Ser Leu Gly Arg Phe Cys Gly Gln Leu Gly Ser Pro
 85 90 95
 Leu Gly Asn Pro Pro Gly Lys Lys Glu Phe Met Ser Gln Gly Asn Lys
 100 105 110
 Met Leu Leu Thr Phe His Thr Asp Phe Ser Asn Glu Glu Asn Gly Thr
 115 120 125
 Ile Met Phe Tyr Lys Gly Phe Leu Ala Tyr Tyr Gln Ala Val Asp Leu
 130 135 140
 Asp Glu Cys Ala Ser Arg Ser Lys Ser Gly Glu Glu Asp Pro Gln Pro
 145 150 155 160
 Gln Cys Gln His Leu Cys His Asn Tyr Val Gly Gly Tyr Phe Cys Ser
 165 170 175
 Cys Arg Pro Gly Tyr Glu Leu Gln Glu Asp Arg His Ser Cys Gln Ala

616

180	185	190
Glu Cys Ser Ser Glu Leu Tyr Thr Glu Ala Ser Gly Tyr Ile Ser Ser		
195	200	205
Leu Glu Tyr Pro Arg Ser Tyr Pro Pro Asp Leu Arg Cys Asn Tyr Ser		
210	215	220
Ile Arg Val Glu Arg Gly Leu Thr Leu His Leu Lys Phe Leu Glu Pro		
225	230	235
Phe Asp Ile Asp Asp His Gln Gln Val His Cys Pro Tyr Asp Gln Leu		
245	250	255
Gln Ile Tyr Ala Asn Gly Lys Asn Ile Gly Glu Phe Cys Gly Lys Gln		
260	265	270
Arg Pro Pro Asp Leu Asp Thr Ser Ser Asn Ala Val Asp Leu Leu Phe		
275	280	285
Phe Thr Asp Glu Ser Gly Asp Ser Arg Gly Trp Lys Leu Arg Tyr Thr		
290	295	300
Thr Glu Xaa His Gln Val Pro Pro Ala Gln Asp Pro Arg Arg Ser Ser		
305	310	315
Pro Ser Ser Arg Thr Cys Ser Leu Gln Leu Pro Ser Phe Arg Xaa Leu		
325	330	335
Ile Cys Ile Cys Phe Thr Trp Gln Gly Lys Ala Tyr Pro Val Pro		
340	345	350

<210> 612

<211> 449

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (284)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 612

Ile Tyr Ala Asn Gly Lys Asn Ile Gly Glu Phe Cys Gly Lys Gln Arg

617

1	5	10	15
Xaa Pro Asp Leu Asp Thr Ser Ser Asn Ala Val Asp Leu Leu Phe Phe	20	25	30
Thr Asp Glu Ser Gly Asp Ser Arg Gly Trp Lys Leu Arg Tyr Thr Thr	35	40	45
Glu Ile Ile Lys Cys Pro Gln Pro Lys Thr Leu Asp Glu Phe Thr Ile	50	55	60
Ile Gln Asn Leu Gln Pro Gln Tyr Gln Phe Arg Asp Tyr Phe Ile Ala	65	70	75
Thr Cys Lys Gln Gly Tyr Gln Leu Ile Glu Gly Asn Gln Val Leu His	85	90	95
Ser Phe Thr Ala Val Cys Gln Asp Asp Gly Thr Trp His Arg Ala Met	100	105	110
Pro Arg Cys Lys Ile Lys Asp Cys Gly Gln Pro Arg Asn Leu Pro Asn	115	120	125
Gly Asp Phe Arg Tyr Thr Thr Thr Met Gly Val Asn Thr Tyr Lys Ala	130	135	140
Arg Ile Gln Tyr Tyr Cys His Glu Pro Tyr Tyr Lys Met Gln Thr Arg	145	150	155
Ala Gly Ser Arg Glu Ser Glu Gln Gly Val Tyr Thr Cys Thr Ala Gln	165	170	175
Gly Ile Trp Lys Asn Glu Gln Lys Gly Glu Lys Ile Pro Arg Cys Leu	180	185	190
Pro Val Cys Gly Lys Pro Val Asn Pro Val Glu Gln Arg Gln Arg Ile	195	200	205
Ile Gly Gly Gln Lys Ala Lys Met Gly Asn Phe Pro Trp Gln Val Phe	210	215	220
Thr Asn Ile His Gly Arg Gly Gly Gly Ala Leu Leu Gly Asp Arg Trp	225	230	235
Ile Leu Thr Ala Ala His Thr Leu Tyr Pro Lys Glu His Glu Ala Gln	245	250	255
Ser Asn Ala Ser Leu Asp Val Phe Leu Gly His Thr Asn Val Glu Glu	260	265	270
Leu Met Lys Leu Gly Asn His Pro Ile Arg Arg Xaa Ser Val His Pro			

618

275 280 285
Asp Tyr Arg Gln Asp Glu Ser Tyr Asn Phe Glu Gly Asp Ile Ala Leu
290 295 300
Leu Glu Leu Glu Asn Ser Val Thr Leu Gly Pro Asn Leu Leu Pro Ile
305 310 315 320
Cys Leu Pro Asp Asn Asp Thr Phe Tyr Asp Leu Gly Leu Met Gly Tyr
325 330 335
Val Ser Gly Phe Gly Val Met Glu Glu Lys Ile Ala His Asp Leu Arg
340 345 350
Phe Val Arg Leu Pro Val Ala Asn Pro Gln Ala Cys Glu Asn Trp Leu
355 360 365
Arg Gly Lys Asn Arg Met Asp Val Phe Ser Gln Asn Met Phe Cys Ala
370 375 380
Gly His Pro Ser Leu Lys Gln Asp Ala Cys Gln Gly Asp Ser Gly Gly
385 390 395 400
Val Phe Ala Val Arg Asp Pro Asn Thr Asp Arg Trp Val Ala Thr Gly
405 410 415
Ile Val Ser Trp Gly Ile Gly Cys Ser Arg Gly Tyr Gly Phe Tyr Thr
420 425 430
Lys Val Leu Asn Tyr Val Asp Trp Ile Lys Lys Glu Met Glu Glu Glu
435 440 445

Asp

<210> 613

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

619

<400> 613

Asp Pro Lys Tyr Arg Lys Trp Ala Trp Glu Ala Val Glu Ala Leu Glu
 1 5 10 15

Asn His Cys Arg Val Asn Gly Gly Tyr Ser Gly Leu Arg Asp Val Tyr
 20 25 30

Leu Leu His Glu Ser Tyr Asp Asp Val Gln Gln Ser Phe Phe Leu Ala
 35 40 45

Glu Thr Leu Lys Tyr Leu Tyr Leu Ile Phe Ser Asp Xaa Asp Xaa Leu
 50 55 60

Pro Leu Glu His Trp Ile Phe Asn Ser Glu Ala His Leu Leu Pro Ile
 65 70 75 80

Leu Pro Lys Asp Lys Lys Glu Val Glu Ile Arg Glu Glu
 85 90

<210> 614

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 614

Ser Leu Asn Pro Met Glu Lys Thr Gln Glu Thr Val Gln Arg Ile Leu
 1 5 10 15

Leu Glu Pro Tyr Lys Tyr Leu Leu Gln Leu Pro Gly Lys Gln Val Arg
 20 25 30

Thr Lys Leu Ser Gln Ala Phe Asn His Trp Leu Lys Val Pro Glu Asp
 35 40 45

Lys Leu Gln Ile Ile Ile Glu Val Thr Glu Met Leu His Asn Ala Ser
 50 55 60

Leu Leu Ile Asp Asp Ile Glu Asp Asn Ser Lys Leu Arg Arg Gly Phe

620

65		70		75		80
Pro Val Ala His Ser Ile Tyr Gly Ile Pro Ser Val Ile Asn Ser Ala						
	85			90		95
Asn Tyr Val Tyr Phe Leu Gly Leu Glu Lys Val Leu Thr Leu Asp His						
	100			105		110
Pro Asp Ala Val Lys Leu Phe Thr Arg Gln Leu Leu Glu Leu His Gln						
	115			120		125
Gly Gln Gly Leu Asp Ile Tyr Trp Arg Asp Asn Tyr Thr Cys Pro Thr						
	130			135		140
Glu Glu Glu Tyr Lys Ala Met Val Leu Gln Lys Thr Gly Gly Leu Phe						
	145			150		155
Gly Leu Ala Val Gly Leu Met Gln Leu Phe Ser Asp Tyr Lys Glu Asp						
	165			170		175
Leu Lys Pro Leu Leu Asn Thr Leu Gly Leu Phe Phe Gln Ile Arg Asp						
	180			185		190
Asp Tyr Ala Asn Leu His Ser Lys Glu Tyr Ser Glu Asn Lys Ser Xaa						
	195			200		205
Cys Glu Asp Leu Thr Glu Gly Lys Phe Ser Phe Pro Thr Ile His Ala						
	210			215		220
Ile Trp Ser Arg Xaa Glu Ser Thr Gln Val Gln Asn Ile Leu Arg Gln						
	225			230		235
Arg Thr Glu Asn Ile Asp Ile Lys Lys Tyr Cys Val His Tyr Leu Glu						
	245			250		255
Asp Val Gly Ser Phe Glu Tyr Thr Arg Asn Thr Leu Lys Glu Leu Glu						
	260			265		270
Ala Lys Ala Tyr Lys Gln Ile Asp Ala Arg Gly Gly Asn Pro Glu Leu						
	275			280		285
Val Ala Leu Val Lys His Leu Ser Lys Met Phe Lys Glu Glu Asn Glu						
	290			295		300

<210> 615

<211> 171

621

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 615

Ser Cys Gly Pro Arg Gly Leu Ala Ser Leu Gly Leu Gly Phe Ser Gly
 1 5 10 15

Arg Cys Asp Asp Gln Asn Lys Gly Arg Ser Arg Arg Ala Arg Gly Ser
 20 25 30

Gly Gly Gly Val Phe Arg Gly Ala His Leu Pro Gly Ala Ala Gly Gln
 35 40 45

Pro Glu Pro His Arg Ala Xaa Leu Ala Ser Arg Arg Leu Thr Arg Lys
 50 55 60

Leu Tyr Lys Cys Ile Lys Lys Ala Val Lys Gln Lys Gln Ile Arg Arg
 65 70 75 80

Gly Val Lys Glu Val Gln Lys Phe Val Asn Lys Gly Glu Lys Gly Ile
 85 90 95

Met Val Leu Ala Gly Asp Thr Leu Pro Ile Glu Val Tyr Cys His Leu
 100 105 110

Pro Val Met Cys Glu Asp Arg Asn Leu Pro Tyr Val Tyr Ile Pro Ser
 115 120 125

Lys Thr Asp Leu Gly Ala Ala Ala Ala Pro Lys Arg Pro Thr Cys Val
 130 135 140

Ile Met Val Lys Pro His Glu Glu Tyr Gln Glu Ala Tyr Asp Glu Cys
 145 150 155 160

Leu Glu Glu Val Gln Ser Leu Pro Leu Pro Leu
 165 170

<210> 616

<211> 55

<212> PRT

<213> Homo sapiens

<400> 616

Phe Asn Ile Pro Leu His Gln Ile Asn Gln Val Tyr Arg Gln Gly Pro

622

```

      1             5             10             15
Thr Gly Ile His Ile Leu Val Ser Asp Gln Met Val Gln Asn Phe Gln
      20             25             30
Asp Glu Ser Cys Phe Leu Phe Ser Thr Val Lys Ala Glu Ser Ser Asp
      35             40             45
Gly Ile His Ile Ile Leu Lys
      50             55

```

<210> 617
 <211> 143
 <212> PRT
 <213> Homo sapiens

```

<400> 617
Gly Val Arg Leu Arg Glu Asp Asp Arg Arg Val Trp Ser Thr Gly Pro
  1             5             10             15
Pro Arg Val Trp Gly Ala Asp Arg Ser Thr Leu Arg Ala Val Met Ser
      20             25             30
Ala Ser Val Val Ser Val Ile Ser Arg Phe Leu Glu Glu Tyr Leu Ser
      35             40             45
Ser Thr Pro Gln Arg Leu Lys Leu Leu Asp Ala Tyr Leu Leu Tyr Ile
      50             55             60
Leu Leu Thr Gly Ala Leu Gln Phe Gly Tyr Cys Leu Leu Val Gly Thr
      65             70             75             80
Phe Pro Phe Asn Ser Phe Leu Ser Gly Phe Ile Ser Cys Val Gly Ser
      85             90             95
Phe Ile Leu Ala Val Cys Leu Arg Ile Gln Ile Asn Pro Gln Asn Lys
      100            105            110
Ala Asp Phe Gln Gly Ile Ser Pro Glu Arg Ala Phe Ala Asp Phe Leu
      115            120            125
Phe Ala Ser Thr Ile Leu His Leu Val Val Met Asn Phe Val Gly
      130            135            140

```

<210> 618
 <211> 376
 <212> PRT

623

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 618

Ala Ala Gly Asp Arg Asp Cys Arg Pro Ala Ser Gly Gly Asn Pro Ser
 1 5 10 15

Val Ile Arg Lys Xaa Tyr Asn Leu Thr Ser Gln Asp Val Gly Ser Gly
 20 25 30

Thr Ser Asn Asn Ser Gln Ala Cys Ala Gln Phe Leu Glu Gln Tyr Phe
 35 40 45

His Asp Ser Asp Leu Ala Gln Phe Met Arg Leu Phe Gly Gly Asn Phe
 50 55 60

Ala His Gln Ala Ser Val Ala Arg Val Val Gly Gln Gln Gly Arg Gly
 65 70 75 80

Arg Ala Gly Ile Glu Ala Ser Leu Asp Val Gln Tyr Leu Met Ser Ala
 85 90 95

Gly Ala Asn Ile Ser Thr Trp Val Tyr Ser Ser Pro Gly Arg His Glu
 100 105 110

Gly Gln Glu Pro Phe Leu Gln Trp Leu Met Leu Leu Ser Asn Glu Ser
 115 120 125

Ala Leu Pro His Val His Thr Val Ser Tyr Gly Asp Asp Glu Asp Ser
 130 135 140

Leu Ser Ser Ala Tyr Ile Gln Arg Val Asn Thr Glu Leu Met Lys Ala
 145 150 155 160

Ala Ala Arg Gly Leu Thr Leu Leu Phe Ala Ser Gly Asp Ser Gly Ala
 165 170 175

Gly Cys Trp Ser Val Ser Gly Arg His Gln Phe Arg Pro Thr Phe Pro
 180 185 190

Ala Ser Ser Pro Tyr Val Thr Thr Val Gly Gly Thr Ser Phe Gln Glu
 195 200 205

Pro Phe Leu Ile Thr Asn Glu Ile Val Asp Tyr Ile Ser Gly Gly Gly
 210 215 220

Phe Ser Asn Val Phe Pro Arg Pro Ser Tyr Gln Glu Glu Ala Val Thr

624

225 230 235 240
 Lys Phe Leu Ser Ser Ser Pro His Leu Pro Pro Ser Ser Tyr Phe Asn
 245 250 255
 Ala Ser Gly Arg Ala Tyr Pro Asp Val Ala Ala Leu Ser Asp Gly Tyr
 260 265 270
 Trp Val Val Ser Asn Arg Val Pro Ile Pro Trp Val Ser Gly Thr Ser
 275 280 285
 Ala Ser Thr Pro Val Phe Gly Gly Ile Leu Ser Leu Ile Asn Glu His
 290 295 300
 Arg Ile Leu Ser Gly Arg Pro Pro Leu Gly Phe Leu Asn Pro Arg Leu
 305 310 315 320
 Tyr Gln Gln His Gly Ala Gly Leu Phe Asp Val Thr Arg Gly Cys His
 325 330 335
 Glu Ser Cys Leu Asp Glu Glu Val Glu Gly Gln Gly Phe Cys Ser Gly
 340 345 350
 Pro Gly Trp Asp Pro Val Thr Gly Trp Gly Thr Pro Asn Phe Pro Ala
 355 360 365
 Leu Leu Lys Thr Leu Leu Asn Pro
 370 375

<210> 619

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 619

Arg Gly Gly Gly Ser Pro Gly Val Arg Ser Ala Asp Thr Pro Gly His
 1 5 10 15

Arg Ala Pro Gly His Arg Ala Ala Gly Pro Ser Pro Gln Ser Asn Ala

625

20					25					30						
Asp	Ala	Ala	Gly	Asn	Pro	Leu	Leu	Leu	Ser	His	Thr	Leu	Gln	Glu	Leu	
35					40					45						
Leu	Ala	Arg	Asp	Thr	Val	Gln	Val	Glu	Leu	Ile	Pro	Glu	Lys	Lys	Gly	
50					55					60						
Leu	Phe	Leu	Lys	His	Val	Glu	Tyr	Glu	Val	Ser	Ser	Gln	Arg	Phe	Lys	
65					70					75					80	
Ser	Ser	Val	Tyr	Arg	Arg	Tyr	Asn	Asp	Phe	Val	Val	Phe	Gln	Glu	Met	
85					90					95						
Leu	Leu	His	Lys	Phe	Pro	Tyr	Arg	Met	Val	Pro	Ala	Leu	Pro	Pro	Lys	
100					105					110						
Arg	Met	Leu	Gly	Ala	Asp	Arg	Glu	Phe	Ile	Glu	Ala	Arg	Arg	Arg	Ala	
115					120					125						
Leu	Lys	Arg	Phe	Val	Asn	Leu	Val	Ala	Arg	His	Pro	Leu	Phe	Ser	Glu	
130					135					140						
Asp	Val	Val	Leu	Lys	Leu	Phe	Leu	Ser	Phe	Ser	Gly	Ser	Asp	Val	Gln	
145					150					155					160	
Asn	Lys	Leu	Lys	Glu	Ser	Ala	Gln	Cys	Val	Gly	Asp	Glu	Phe	Leu	Asn	
165					170					175						
Cys	Lys	Leu	Ala	Thr	Arg	Ala	Lys	Asp	Phe	Leu	Pro	Ala	Asp	Ile	Gln	
180					185					190						
Ala	Gln	Phe	Ala	Ile	Ser	Arg	Glu	Leu	Ile	Arg	Asn	Ile	Tyr	Asn	Ser	
195					200					205						
Phe	His	Lys	Leu	Arg	Xaa	Arg	Ala	Glu	Arg	Ile	Xaa	Arg	Gly	His	Arg	
210					215					220						
Gln	Cys	Gly	Arg	Ser	Ser	His	Ile	Arg	Glu	Gly	Ala	Lys	Cys	Asn	Arg	
225					230					235					240	

Val

<210> 620

<211> 305

<212> PRT

<213> Homo sapiens

626

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 620

Thr Phe Asn Glu Arg Ser Gly Arg Ile Glu Arg Ser Asn Arg Ser Leu
 1 5 10 15

Pro Cys Ala Xaa Leu Glu Asp Asn Leu Phe Glu Trp His Phe Thr Val
 20 25 30

Arg Gly Pro Pro Asp Ser Asp Phe Asp Gly Gly Val Tyr His Gly Arg
 35 40 45

Ile Val Leu Pro Pro Glu Tyr Pro Met Lys Pro Pro Ser Ile Ile Leu
 50 55 60

Leu Thr Ala Asn Gly Arg Phe Glu Val Gly Lys Lys Ile Cys Leu Ser
 65 70 75 80

Ile Ser Gly His His Pro Glu Thr Trp Gln Pro Ser Trp Ser Ile Arg
 85 90 95

Thr Ala Leu Leu Ala Ile Ile Gly Phe Met Pro Thr Lys Gly Glu Gly
 100 105 110

Ala Ile Gly Ser Leu Asp Tyr Thr Pro Glu Glu Arg Arg Ala Leu Ala
 115 120 125

Lys Lys Ser Gln Asp Phe Cys Cys Glu Gly Cys Gly Ser Ala Met Lys
 130 135 140

Asp Val Leu Leu Pro Leu Lys Ser Gly Ser Asp Ser Ser Gln Ala Asp
 145 150 155 160

Gln Glu Ala Lys Glu Leu Ala Arg Gln Ile Ser Phe Lys Ala Glu Val
 165 170 175

Asn Ser Ser Gly Lys Thr Ile Ser Glu Ser Asp Leu Asn His Ser Phe
 180 185 190

Ser Leu Thr Asp Leu Gln Asp Asp Ile Pro Thr Thr Phe Gln Gly Ala
 195 200 205

Thr Ala Ser Thr Ser Tyr Gly Xaa Gln Asn Ser Ser Ala Ala Ser Phe

627

210	215	220
His Gln Pro Thr Gln Pro Val Ala Lys Asn Thr Ser Met Ser Pro Arg		
225	230	235 240
Gln Arg Arg Ala Gln Gln Gln Ser Gln Arg Arg Leu Ser Thr Ser Pro		
	245	250 255
Asp Val Ile Gln Gly His Gln Pro Arg Asp Asn His Thr Asp His Gly		
	260	265 270
Gly Ser Ala Val Leu Ile Val Ile Leu Thr Leu Ala Leu Ala Ala Leu		
	275	280 285
Ile Phe Arg Arg Ile Tyr Leu Ala Asn Glu Tyr Ile Phe Asp Phe Glu		
	290	295 300
Leu		
305		

<210> 621

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 621

Asp Pro Arg Asp Ser Arg Ser Gly Leu Gly Arg Leu Xaa Gly Pro Trp
1 5 10 15

Gln Glu Ala Gly Ser Ser Arg Gly Pro Ser Ser Gly Asp Met Ala Gly
20 25 30

Val Lys Ala Leu Val Ala Leu Ser Phe Ser Gly Ala Ile Gly Leu Thr
35 40 45

Phe Leu Met Leu Gly Cys Ala Leu Glu Asp Tyr Gly Val Tyr Trp Pro
50 55 60

Leu Phe Val Leu Ile Phe His Ala Ile Ser Pro Ile Pro His Phe Ile
65 70 75 80

Ala Lys Arg Val Thr Tyr Asp Ser Asp Ala Thr Ser Ser Ala Cys Arg
85 90 95

628

Glu Leu Ala Tyr Phe Phe Thr Thr Gly Ile Val Val Ser Ala Phe Gly
 100 105 110
 Phe Pro Val Ile Leu Ala Arg Val Ala Val Ile Lys Trp Gly Ala Cys
 115 120 125
 Gly Leu Val Leu Ala Gly Asn Ala Val Ile Phe Leu Thr Ile Gln Gly
 130 135 140
 Phe Phe Leu Ile Phe Gly Arg Gly Asp Asp Phe Ser Trp Glu Gln Trp
 145 150 155 160

<210> 622
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 622
 Pro Cys Cys Leu Val Glu Thr Arg Thr Ile Asp Leu Asn Ile Ala Met
 1 5 10 15
 Val Leu Leu Gln Ser Trp Gln Thr Ala Val Thr Leu Pro Arg Gly Gln
 20 25 30
 Arg Val Leu Ile Leu Cys Gln Gln Arg Cys Thr Thr Ile Thr Met Val
 35 40 45
 Val Thr Tyr Arg Lys Ile Arg Val Ala Pro Ala Ser Cys Met Asp Arg
 50 55 60
 Pro Gly Leu Leu Leu Pro Lys Asp Leu Asp Ile His Lys Asp Thr Gly
 65 70 75 80
 Asp Ile Leu Ala His Gln Leu Ala Glu Ala Glu Ala Glu Gly Tyr His
 85 90 95
 Thr Glu Tyr Leu Phe Phe Leu Arg His Ile Ile Phe Ile Trp Lys Asp
 100 105 110
 Phe Ser Ser Cys Asn Leu Arg Gln Gln Ser Lys Arg Leu Glu
 115 120 125

<210> 623
 <211> 108

629

<212> PRT

<213> Homo sapiens

<400> 623

```

Thr Glu Cys Ser Gly Ser Leu Asn His Cys Phe Ser Phe Glu Ser Arg
 1           5           10          15

Ala Ser Cys His Phe His Val Ala Ser Ala Val Ser Pro Pro Thr Pro
          20           25           30

Leu Cys Ser Pro Ala Thr Leu Met Ala Gln Asp Lys Ala Gly Lys Pro
          35           40           45

Ser Gln Lys His Leu Trp Pro Arg Lys Pro Leu Ser Pro Ser Leu Ser
          50           55           60

His Glu Ala Gln Pro Ser Gln Ala Leu Met Leu Ser Gln Trp Ala Ser
          65           70           75           80

His Arg Ala Lys Glu Gly Leu Phe Ser Val Pro Ser Leu Trp Val Arg
          85           90           95

Thr Arg Gly His Ala Glu Cys Pro Leu Leu Thr Trp
          100          105

```

<210> 624

<211> 385

<212> PRT

<213> Homo sapiens

<400> 624

```

Leu Trp Lys Ser Arg Leu Thr Phe Lys Leu Ala Met Ser Arg Val Pro
 1           5           10          15

Ser Pro Pro Pro Pro Ala Glu Met Ser Ser Gly Pro Val Ala Glu Ser
          20           25           30

Trp Cys Tyr Thr Gln Ile Lys Val Val Lys Phe Ser Tyr Met Trp Thr
          35           40           45

Ile Asn Asn Phe Ser Phe Cys Arg Glu Glu Met Gly Glu Val Ile Lys
          50           55           60

Ser Ser Thr Phe Ser Ser Gly Ala Asn Asp Lys Leu Lys Trp Cys Leu
          65           70           75           80

Arg Val Asn Pro Lys Gly Leu Asp Glu Glu Ser Lys Asp Tyr Leu Ser
          85           90           95

```

630

Leu Tyr Leu Leu Leu Val Ser Cys Pro Lys Ser Glu Val Arg Ala Lys
 100 105 110
 Phe Lys Phe Ser Ile Leu Asn Ala Lys Gly Glu Glu Thr Lys Ala Met
 115 120 125
 Glu Ser Gln Arg Ala Tyr Arg Phe Val Gln Gly Lys Asp Trp Gly Phe
 130 135 140
 Lys Lys Phe Ile Arg Arg Asp Phe Leu Leu Asp Glu Ala Asn Gly Leu
 145 150 155 160
 Leu Pro Asp Asp Lys Leu Thr Leu Phe Cys Glu Val Ser Val Val Gln
 165 170 175
 Asp Ser Val Asn Ile Ser Gly Gln Asn Thr Met Asn Met Val Lys Val
 180 185 190
 Pro Glu Cys Arg Leu Ala Asp Glu Leu Gly Gly Leu Trp Glu Asn Ser
 195 200 205
 Arg Phe Thr Asp Cys Cys Leu Cys Val Ala Gly Gln Glu Phe Gln Ala
 210 215 220
 His Lys Ala Ile Leu Ala Ala Arg Ser Pro Val Phe Ser Ala Met Phe
 225 230 235 240
 Glu His Glu Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp
 245 250 255
 Val Glu Pro Glu Val Phe Lys Glu Met Met Cys Phe Ile Tyr Thr Gly
 260 265 270
 Lys Ala Pro Asn Leu Asp Lys Met Ala Asp Asp Leu Leu Ala Ala Ala
 275 280 285
 Asp Lys Tyr Ala Leu Glu Arg Leu Lys Val Met Cys Glu Asp Ala Leu
 290 295 300
 Cys Ser Asn Leu Ser Val Glu Asn Ala Ala Glu Ile Leu Ile Leu Ala
 305 310 315 320
 Asp Leu His Ser Ala Asp Gln Leu Lys Thr Gln Ala Val Asp Phe Ile
 325 330 335
 Asn Tyr His Ala Ser Asp Val Leu Glu Thr Ser Gly Trp Lys Ser Met
 340 345 350
 Val Val Ser His Pro His Leu Val Ala Glu Ala Tyr Arg Ser Leu Ala
 355 360 365

Ser Ala Gln Cys Pro Phe Leu Gly Pro Pro Arg Lys Arg Leu Lys Gln
 370 375 380

Ser
 385

<210> 625
 <211> 390
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (157)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 625
 Leu Glu Arg Glu Arg Leu Glu Gln Glu Gln Leu Glu Arg Glu Arg Gln
 1 5 10 15

Glu Arg Glu Arg Gln Glu Arg Leu Glu Arg Gln Glu Arg Leu Glu Arg
 20 25 30

Gln Glu Arg Leu Glu Arg Gln Glu Arg Leu Asp Arg Glu Arg Gln Glu
 35 40 45

Arg Gln Glu Arg Glu Arg Leu Glu Arg Leu Glu Arg Glu Arg Gln Glu
 50 55 60

Arg Glu Arg Gln Glu Gln Leu Glu Arg Glu Gln Leu Glu Trp Glu Arg
 65 70 75 80

Glu Arg Arg Ile Ser Ser Ala Ala Ala Pro Ala Ser Val Glu Thr Pro
 85 90 95

Leu Asn Ser Val Leu Gly Asp Ser Ser Ala Ser Glu Pro Gly Leu Gln
 100 105 110

Ala Ala Ser Gln Pro Ala Glu Thr Pro Ser Gln Xaa Gly Ile Val Leu

632

115	120	125
Gly Xaa Leu Ala Pro Pro Pro Pro Pro Pro Leu Pro Pro Gly Pro Ala		
130	135	140
Gln Ala Ser Val Ala Leu Pro Pro Pro Pro Glu Lys Xaa Ser Thr Ser		
145	150	155 160
Ser Thr Pro Ile His Arg Ala Ser Thr Ala Pro Pro Pro Pro Pro Leu		
	165	170 175
Pro Asn Gln Val Pro Pro Pro Pro Pro Pro Pro Pro Ala Pro Pro Leu		
	180	185 190
Pro Ala Ser Gly Phe Phe Leu Ala Ser Met Ser Glu Asp Asn Arg Pro		
	195	200 205
Leu Thr Gly Leu Ala Ala Ala Ile Ala Gly Ala Lys Leu Arg Lys Val		
	210	215 220
Ser Arg Met Glu Asp Thr Ser Phe Pro Ser Gly Gly Asn Ala Ile Gly		
	225	230 235 240
Val Asn Ser Ala Ser Ser Lys Thr Asp Thr Gly Arg Gly Asn Gly Pro		
	245	250 255
Leu Pro Leu Gly Gly Ser Gly Leu Met Glu Glu Met Ser Ala Leu Leu		
	260	265 270
Ala Arg Arg Arg Arg Ile Ala Glu Lys Gly Ser Thr Ile Glu Thr Glu		
	275	280 285
Gln Lys Glu Asp Lys Gly Glu Asp Ser Glu Pro Val Thr Ser Lys Ala		
	290	295 300
Ser Ser Thr Ser Thr Pro Glu Pro Thr Arg Lys Pro Trp Glu Arg Thr		
	305	310 315 320
Asn Thr Met Asn Gly Ser Lys Ser Pro Val Ile Ser Arg Pro Lys Ser		
	325	330 335
Thr Pro Leu Ser Gln Pro Ser Ala Asn Gly Val Gln Thr Glu Gly Leu		
	340	345 350
Asp Tyr Asp Arg Leu Lys Gln Asp Ile Leu Asp Glu Met Arg Lys Glu		
	355	360 365
Leu Thr Lys Leu Lys Glu Glu Leu Ile Asp Ala Ile Arg Gln Glu Leu		
	370	375 380
Ser Lys Ser Asn Thr Ala		

633

385

390

<210> 626

<211> 138

<212> PRT

<213> Homo sapiens

<400> 626

Ser Phe Gly Ala Leu Val Arg Asp Gly Asn Pro Ala Asn Val Ser Arg
1 5 10 15

Glu Leu Ser Leu Trp Gln Ala Leu Pro Ser Thr Leu Cys Ile Leu Tyr
20 25 30

Phe Leu Arg Leu Leu Pro Asp Arg Ser Glu Met Ala Glu Val Glu Glu
35 40 45

Thr Leu Lys Arg Leu Gln Ser Gln Lys Gly Val Gln Gly Ile Ile Val
50 55 60

Val Asn Thr Glu Gly Ile Pro Ile Lys Ser Thr Met Asp Asn Pro Thr
65 70 75 80

Thr Thr Gln Tyr Ala Ser Leu Met His Ser Phe Ile Leu Lys Ala Arg
85 90 95

Ser Thr Val Arg Asp Ile Asp Pro Gln Asn Asp Leu Thr Phe Leu Arg
100 105 110

Ile Arg Ser Lys Lys Asn Glu Ile Met Val Ala Pro Asp Lys Asp Tyr
115 120 125

Phe Leu Ile Val Ile Gln Asn Pro Thr Glu
130 135

<210> 627

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 627

Gln Gly Phe Gly Arg Pro Ser Val Tyr His Ala Ala Ile Val Ile Phe

634

1	5	10	15
Leu Glu Phe Phe Ala Trp Gly Leu Leu Thr Thr Pro Met Leu Thr Val	20	25	30
Leu His Glu Thr Phe Ser Gln His Thr Phe Leu Met Asn Gly Leu Ile	35	40	45
Gln Gly Val Lys Gly Leu Leu Ser Phe Leu Ser Ala Pro Leu Ile Gly	50	55	60
Ala Leu Ser Asp Val Trp Gly Arg Lys Pro Phe Leu Leu Gly Thr Val	65	70	75
Phe Phe Thr Cys Phe Pro Ile Pro Leu Met Arg Ile Ser Pro Trp Trp	85	90	95
Tyr Phe Ala Met Ile Ser Val Ser Gly Val Phe Ser Val Thr Phe Ser	100	105	110
Val Ile Phe Ala Tyr Val Ala Asp Val Thr Gln Glu His Glu Arg Ser	115	120	125
Thr Ala Tyr Gly Trp Val Ser Ala Thr Phe Xaa Ala Ser Leu Val Ser	130	135	140
Ser Pro Ala Ile Gly Ala Tyr Leu Ser Ala Ser Tyr Gly Asp Ser Leu	145	150	155
Val Val Leu Val Ala Thr Val Val Ala Leu Leu Asp Ile Cys Phe Ile	165	170	175
Leu Val Ala Val Pro Glu Ser Leu Pro Glu Lys Met Arg Pro Val Ser	180	185	190
Trp Gly Ala Gln Ile Ser Trp Lys Gln Ala Asp Pro Phe Ala Ser Leu	195	200	205
Lys Lys Val Gly Lys Asp Ser Thr Val Leu Leu Ile Cys Ile Thr Val	210	215	220
Phe Leu Ser Tyr Leu Pro Glu Ala Gly Gln Tyr Ser Ser Phe Phe Leu	225	230	235
Tyr Leu Arg Gln Val Ile Gly Phe Gly Ser Val Lys Ile Ala Ala Phe	245	250	255
Ile Ala Met Val Gly Ile Leu Ser Ile Val Ala Gln Thr Ala Phe Leu	260	265	270
Ser Ile Leu Met Arg Ser Leu Gly Asn Lys Asn Thr Val Leu Leu Gly			

635

275 280 285
 Leu Gly Phe Gln Met Leu Gln Leu Ala Trp Tyr Gly Phe Gly Ser Gln
 290 295 300
 Ala Trp Met Met Trp Ala Ala Gly Thr Val Ala Ala Met Ser Ser Ile
 305 310 315 320
 Thr Phe Pro Ala Ile Ser Ala Leu Val Ser Arg Asn Ala Glu Ser Asp
 325 330 335
 Gln Gln Gly Val Ala Gln Gly Ile Ile Thr Gly Ile Arg Gly Leu Cys
 340 345 350
 Asn Gly Leu Gly Pro Ala Leu Tyr Gly Phe Ile Phe Tyr Met Phe His
 355 360 365
 Val Glu Leu Thr Glu Leu Gly Pro Lys Leu Asn Ser Asn Asn Val Pro
 370 375 380
 Leu Gln Gly Ala Val Ile Pro Gly Pro Pro Phe Leu Phe Gly Ala Cys
 385 390 395 400
 Ile Val Leu Met Ser Phe Leu Val Ala Leu Phe Ile Pro Glu Tyr Ser
 405 410 415
 Lys Ala Ser Gly Val Gln Lys His Ser Asn Ser Ser Ser Gly Ser Leu
 420 425 430
 Thr Asn Thr Pro Glu Arg Gly Ser Asp Glu Asp Ile Glu Pro Leu Leu
 435 440 445
 Gln Asp Ser Ser Ile Trp Glu Leu Ser Ser Phe Glu Glu Pro Gly Asn
 450 455 460
 Gln Cys Thr Glu Leu
 465

<210> 628

<211> 157

<212> PRT

<213> Homo sapiens

<400> 628

Asn Tyr Ile Pro Glu Val Arg Ile Met Ser Ile Pro Asn Leu Arg Tyr
 1 5 10 15
 Met Lys Glu Ser Gln Val Leu Leu Thr Leu Thr Asn Pro Val Glu Asn
 20 25 30

636

Leu Thr His Val Thr Leu Phe Glu Cys Glu Glu Gly Asp Pro Asp Asp
 35 40 45
 Ile Asn Ser Thr Ala Lys Val Val Val Pro Pro Lys Glu Leu Val Leu
 50 55 60
 Ala Gly Lys Asp Ala Ala Ala Glu Tyr Asp Glu Leu Ala Glu Pro Gln
 65 70 75 80
 Asp Phe Gln Asp Asp Pro Asp Ile Ile Ala Phe Arg Lys Ala Asn Lys
 85 90 95
 Val Gly Ile Phe Ile Lys Val Thr Pro Gln Arg Glu Glu Gly Glu Val
 100 105 110
 Thr Val Cys Phe Lys Met Lys His Asp Phe Lys Asn Leu Ala Ala Pro
 115 120 125
 Ile Arg Pro Ile Glu Glu Ser Asp Gln Gly Thr Glu Val Ile Trp Leu
 130 135 140
 Thr Gln His Val Glu Leu Ser Leu Gly Pro Leu Leu Pro
 145 150 155

<210> 629

<211> 208

<212> PRT

<213> Homo sapiens

<400> 629

Arg Met Thr Ser Arg Lys Lys Val Leu Leu Lys Val Ile Ile Leu Gly
 1 5 10 15
 Asp Ser Gly Val Gly Lys Thr Ser Leu Met Asn Gln Tyr Val Asn Lys
 20 25 30
 Lys Phe Ser Asn Gln Tyr Lys Ala Thr Ile Gly Ala Asp Phe Leu Thr
 35 40 45
 Lys Glu Val Met Val Asp Asp Arg Leu Val Thr Met Gln Ile Trp Asp
 50 55 60
 Thr Ala Gly Gln Glu Arg Phe Gln Ser Leu Gly Val Ala Phe Tyr Arg
 65 70 75 80
 Gly Ala Asp Cys Cys Val Leu Val Phe Asp Val Thr Ala Pro Asn Thr
 85 90 95

637

Phe Lys Thr Leu Asp Ser Trp Arg Asp Glu Phe Leu Ile Gln Ala Ser
 100 105 110
 Pro Arg Asp Pro Glu Asn Phe Pro Phe Val Val Leu Gly Asn Lys Ile
 115 120 125
 Asp Leu Glu Asn Arg Gln Val Ala Thr Lys Arg Ala Gln Ala Trp Cys
 130 135 140
 Tyr Ser Lys Asn Asn Ile Pro Tyr Phe Glu Thr Ser Ala Lys Glu Ala
 145 150 155 160
 Ile Asn Val Glu Gln Ala Phe Gln Thr Ile Ala Arg Asn Ala Leu Lys
 165 170 175
 Gln Glu Thr Glu Val Glu Leu Tyr Asn Glu Phe Pro Glu Pro Ile Lys
 180 185 190
 Leu Asp Lys Asn Asp Arg Ala Lys Ala Ser Ala Glu Ser Cys Ser Cys
 195 200 205

<210> 630
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 630
 Thr Ala Met Ser Ser Glu Glu Gly Lys Leu Phe Val Gly Gly Leu Asn
 1 5 10 15
 Phe Asn Thr Asp Glu Gln Ala Leu Glu Asp His Phe Ser Ser Phe Gly
 20 25 30
 Pro Ile Ser Glu Val Val Val Val Lys Asp Arg Glu Thr Gln Arg Ser
 35 40 45
 Arg Gly Phe Gly Phe Ile Thr Phe Thr Asn Pro Glu His Ala Ser Val
 50 55 60
 Ala Met Arg Ala Met Asn Gly Glu Ser Leu Asp Gly Arg Gln Ile Arg
 65 70 75 80
 Val Asp His Ala Gly Lys Ser Ala Arg Gly Thr Arg Gly Gly Gly Phe
 85 90 95
 Gly Ala His Gly Arg Gly Arg Ser Tyr Ser Arg Gly Gly Gly Asp Gln

638

100 105 110
 Gly Tyr Gly Ser Gly Arg Tyr Tyr Asp Ser Arg Pro Gly Gly Tyr Gly
 115 120 125
 Tyr Gly Tyr Gly Arg Ser Arg Asp Tyr Asn Gly Arg Asn Gln Gly Gly
 130 135 140
 Tyr Asp Arg Tyr Ser Gly Gly Asn Tyr Arg Asp Asn Tyr Asp Asn
 145 150 155

<210> 631
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 631
 Phe Asn Val Phe Tyr Leu Thr Leu Arg Ser Cys Leu Ile Lys Thr Leu
 1 5 10 15
 Asn Ser Thr Cys Lys Met Val Ala Gln Cys Tyr Ala Arg Ser Gly Cys
 20 25 30
 Ser Leu Val Leu Asn Glu His Ile Cys Asn Thr Thr Cys Asn Ser Ile
 35 40 45

<210> 632
 <211> 679
 <212> PRT
 <213> Homo sapiens

<400> 632
 Arg Ile Trp Val Asn Ile Ser Leu Ser Gly Ile Lys Ile Ile Asp Glu
 1 5 10 15
 Lys Thr Gly Val Ile Glu His Glu His Pro Val Asn Lys Ile Ser Phe
 20 25 30
 Ile Ala Arg Asp Val Thr Asp Asn Arg Ala Phe Gly Tyr Val Cys Gly
 35 40 45
 Gly Glu Gly Gln His Gln Phe Phe Ala Ile Lys Thr Gly Gln Gln Ala
 50 55 60

639

Glu	Pro	Leu	Val	Val	Asp	Leu	Lys	Asp	Leu	Phe	Gln	Val	Ile	Tyr	Asn	65	70	75	80
Val	Lys	Lys	Lys	Glu	Glu	Glu	Lys	Lys	Lys	Ile	Glu	Glu	Ala	Ser	Lys	85	90	95	
Ala	Val	Glu	Asn	Gly	Ser	Glu	Ala	Leu	Met	Ile	Leu	Asp	Asp	Gln	Thr	100	105	110	
Asn	Lys	Leu	Lys	Ser	Gly	Val	Asp	Gln	Met	Asp	Leu	Phe	Gly	Asp	Met	115	120	125	
Ser	Thr	Pro	Pro	Asp	Leu	Asn	Ser	Pro	Thr	Glu	Ser	Lys	Asp	Ile	Leu	130	135	140	
Leu	Val	Asp	Leu	Asn	Ser	Glu	Ile	Asp	Thr	Asn	Gln	Asn	Ser	Leu	Arg	145	150	155	160
Glu	Asn	Pro	Phe	Leu	Thr	Asn	Gly	Ile	Thr	Ser	Cys	Ser	Leu	Pro	Arg	165	170	175	
Pro	Thr	Pro	Gln	Ala	Ser	Phe	Leu	Pro	Glu	Asn	Ala	Phe	Ser	Ala	Asn	180	185	190	
Leu	Asn	Phe	Phe	Pro	Thr	Pro	Asn	Pro	Asp	Pro	Phe	Arg	Asp	Asp	Pro	195	200	205	
Phe	Thr	Gln	Pro	Asp	Gln	Ser	Thr	Pro	Ser	Ser	Phe	Asp	Ser	Leu	Lys	210	215	220	
Ser	Pro	Asp	Gln	Lys	Lys	Glu	Asn	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Leu	225	230	235	240
Ser	Asn	Gly	Pro	Leu	Asn	Gly	Asp	Val	Asp	Tyr	Phe	Gly	Gln	Gln	Phe	245	250	255	
Asp	Gln	Ile	Ser	Asn	Arg	Thr	Gly	Lys	Gln	Glu	Ala	Gln	Ala	Gly	Pro	260	265	270	
Trp	Pro	Phe	Ser	Ser	Ser	Gln	Thr	Gln	Pro	Ala	Val	Arg	Thr	Gln	Asn	275	280	285	
Gly	Val	Ser	Glu	Arg	Glu	Gln	Asn	Gly	Phe	Ser	Val	Lys	Ser	Ser	Pro	290	295	300	
Asn	Pro	Phe	Val	Gly	Ser	Pro	Pro	Lys	Gly	Leu	Ser	Ile	Gln	Asn	Gly	305	310	315	320
Val	Lys	Gln	Asp	Leu	Glu	Ser	Ser	Val	Gln	Ser	Ser	Pro	His	Asp	Ser	325	330	335	

640

```

Ile Ala Ile Ile Pro Pro Pro Gln Ser Thr Lys Pro Gly Arg Gly Arg
      340                      345                      350

Arg Thr Ala Lys Ser Ser Ala Asn Asp Leu Leu Ala Ser Asp Ile Phe
      355                      360                      365

Ala Pro Pro Val Ser Glu Pro Ser Gly Gln Ala Ser Pro Thr Gly Gln
      370                      375                      380

Pro Thr Ala Leu Gln Pro Asn Pro Leu Asp Leu Phe Lys Thr Ser Ala
      385                      390                      395                      400

Pro Ala Pro Val Gly Pro Leu Val Gly Leu Gly Gly Val Thr Val Thr
      405                      410                      415

Leu Pro Gln Ala Gly Pro Trp Asn Thr Ala Ser Leu Val Phe Asn Gln
      420                      425                      430

Ser Pro Ser Met Ala Pro Gly Ala Met Met Gly Gly Gln Pro Ser Gly
      435                      440                      445

Phe Ser Gln Pro Val Ile Phe Gly Thr Ser Pro Ala Val Ser Gly Trp
      450                      455                      460

Asn Gln Pro Ser Pro Phe Ala Ala Ser Thr Pro Pro Pro Val Pro Val
      465                      470                      475                      480

Val Trp Gly Pro Ser Ala Ser Val Ala Pro Asn Ala Trp Ser Thr Thr
      485                      490                      495

Ser Pro Leu Gly Asn Pro Phe Gln Ser Asn Ile Phe Pro Ala Pro Ala
      500                      505                      510

Val Ser Thr Gln Pro Pro Ser Met His Ser Ser Leu Leu Val Thr Pro
      515                      520                      525

Pro Gln Pro Pro Pro Arg Ala Gly Pro Pro Lys Asp Ile Ser Ser Asp
      530                      535                      540

Ala Phe Thr Ala Leu Asp Pro Leu Gly Asp Lys Glu Ile Lys Asp Val
      545                      550                      555                      560

Lys Glu Met Phe Lys Asp Phe Gln Leu Arg Gln Pro Pro Ala Val Pro
      565                      570                      575

Ala Arg Lys Gly Glu Gln Thr Ser Ser Gly Thr Leu Ser Ala Phe Ala
      580                      585                      590

Ser Tyr Phe Asn Ser Lys Val Gly Ile Pro Gln Glu Asn Ala Asp His
      595                      600                      605

```

641

```

Asp Asp Phe Asp Ala Asn Gln Leu Leu Asn Lys Ile Asn Glu Pro Pro
 610                      615                      620

Lys Pro Ala Pro Arg Gln Val Ser Leu Pro Val Thr Lys Ser Thr Asp
625                      630                      635                      640

Asn Ala Phe Glu Asn Pro Phe Phe Lys Asp Ser Phe Gly Ser Ser Gln
                      645                      650                      655

Ala Ser Val Ala Ser Ser Gln Pro Val Ser Ser Glu Met Tyr Arg Asp
                      660                      665                      670

Pro Phe Gly Asn Pro Phe Ala
 675

```

```

<210> 633
<211> 169
<212> PRT
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

```

```

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

```

```

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

```

```

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

```

```

<400> 633
Xaa Leu Val Asp Pro Pro Gly Leu Xaa Gly Ile Pro Arg Ala Ala Leu
 1              5              10              15

Gly His Leu Ala Gly Glu Ala Ala Ala Ala Pro Gly Pro Gly Thr Pro
      20              25              30

Cys Ala Ser Arg Gly Ala Arg Leu Pro Gly Pro Val Ser Ser Ala Arg
      35              40              45

```

642

Asn Pro Ser Thr Val Cys Leu Cys Pro Glu Gln Pro Thr Cys Ser Asn
 50 55 60
 Ala Asp Ser Arg Ala His Pro Leu Gly Asp Glu Gly Gly Thr Ala Ser
 65 70 75 80
 Lys Lys Gln Lys Asn Lys Lys Lys Thr Arg Asn Arg Ala Ser Val Ala
 85 90 95
 Asn Gly Gly Glu Lys Ala Ser Glu Lys Leu Ala Pro Glu Glu Val Pro
 100 105 110
 Leu Ser Ala Glu Ala Gln Ala Gln Gln Leu Ala Gln Glu Leu Ala Trp
 115 120 125
 Cys Val Glu Gln Leu Glu Leu Gly Leu Lys Arg Gln Lys Pro Thr Pro
 130 135 140
 Lys Gln Lys Glu Gln Xaa Leu Glu Gln Ser Glu Pro Cys Ala Xaa Lys
 145 150 155 160
 Glu Arg Pro Cys Pro Gly Arg Gly Ser
 165

<210> 634

<211> 389

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

643

<400> 634

```

Xaa Gly Leu Cys Ala Pro Gln Pro Gly Val Arg Lys Ala Arg Gly Ala
 1             5             10             15

Gly Asn Trp Arg Val Gly Leu Gln Thr Gly Glu Ala Ala Pro Ser Pro
      20             25             30

His Arg Asp Leu Arg Asp Thr Pro Asp Pro Arg Pro Trp Leu Ala Arg
      35             40             45

Thr His Arg Met Thr Thr Thr Leu Val Ser Ala Thr Ile Phe Asp Leu
      50             55             60

Ser Glu Val Leu Cys Lys Gly Asn Lys Met Leu Asn Tyr Ser Ala Pro
      65             70             75             80

Ser Ala Gly Gly Cys Leu Leu Asp Arg Lys Ala Val Gly Thr Pro Ala
      85             90             95

Gly Gly Gly Phe Pro Arg Arg His Ser Val Thr Leu Pro Ser Ser Lys
      100             105             110

Phe His Gln Asn Gln Leu Leu Ser Ser Leu Lys Gly Glu Pro Ala Pro
      115             120             125

Ala Leu Ser Ser Arg Asp Ser Arg Phe Arg Asp Arg Ser Phe Ser Glu
      130             135             140

Gly Ala Ser Gly Cys Cys Pro Xaa Arg Ser Ser Pro Gly Ala Ala Xaa
      145             150             155             160

Ser Asn Ser Ser Arg Tyr Lys Thr Glu Leu Cys Arg Pro Phe Xaa Glu
      165             170             175

Asn Gly Ala Cys Lys Tyr Gly Asp Lys Cys Gln Phe Ala His Gly Ile
      180             185             190

His Glu Leu Arg Ser Leu Thr Arg His Pro Lys Tyr Lys Thr Glu Leu
      195             200             205

Cys Arg Thr Phe His Thr Ile Gly Phe Cys Pro Tyr Gly Pro Arg Cys
      210             215             220

His Phe Ile His Asn Ala Glu Glu Arg Arg Ala Leu Ala Gly Ala Arg
      225             230             235             240

Asp Leu Ser Ala Asp Arg Pro Arg Leu Gln His Ser Phe Ser Phe Ala
      245             250             255

Gly Phe Pro Ser Ala Ala Ala Thr Ala Ala Ala Thr Gly Leu Leu Asp

```

644

260					265					270						
Ser	Pro	Thr	Ser	Ile	Thr	Pro	Pro	Pro	Ile	Leu	Ser	Ala	Asp	Asp	Leu	
275					280					285						
Leu	Gly	Ser	Pro	Thr	Leu	Pro	Asp	Gly	Thr	Asn	Asn	Pro	Phe	Ala	Phe	
290					295					300						
Ser	Ser	Gln	Glu	Leu	Ala	Ser	Leu	Phe	Ala	Pro	Ser	Met	Gly	Leu	Pro	
305					310					315					320	
Gly	Gly	Gly	Ser	Pro	Thr	Thr	Phe	Leu	Phe	Arg	Pro	Met	Ser	Glu	Ser	
325					330					335						
Pro	His	Met	Phe	Asp	Ser	Pro	Pro	Ser	Pro	Gln	Asp	Ser	Leu	Ser	Asp	
340					345					350						
Gln	Glu	Gly	Tyr	Leu	Ser	Ser	Ser	Ser	Ser	Ser	His	Ser	Gly	Ser	Asp	
355					360					365						
Ser	Pro	Thr	Leu	Asp	Asn	Ser	Arg	Arg	Leu	Pro	Ile	Phe	Ser	Arg	Leu	
370					375					380						
Ser	Ile	Ser	Asp	Asp												
385																

<210> 635

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 635

Ser Thr His Ala Ser Gly Ser Leu Tyr Asn Thr Phe Val Ile Glu Glu
1 5 10 15

Lys His Gly Phe Asn Gln Gln Thr Leu Gly Phe Phe Met Lys Asp Ala
20 25 30

Val Lys Lys Phe Ile Val Thr Gln Cys Ile Leu Leu Pro Val Ser Ser
35 40 45

Leu Leu Leu Tyr Ile Ile Lys Ile Gly Gly Asp Tyr Phe Phe Ile Tyr
50 55 60

645

Ala	Trp	Leu	Phe	Thr	Leu	Val	Val	Ser	Leu	Val	Leu	Val	Thr	Ile	Tyr	65	70	75	80
Ala	Asp	Tyr	Ile	Ala	Pro	Leu	Phe	Asp	Lys	Phe	Thr	Pro	Leu	Pro	Glu	85	90	95	
Gly	Lys	Leu	Lys	Xaa	Glu	Ile	Glu	Val	Met	Ala	Lys	Ser	Ile	Asp	Phe	100	105	110	
Pro	Leu	Thr	Lys	Val	Tyr	Val	Val	Glu	Gly	Ser	Lys	Arg	Ser	Ser	His	115	120	125	
Ser	Asn	Ala	Tyr	Phe	Tyr	Gly	Phe	Phe	Lys	Asn	Lys	Arg	Ile	Val	Leu	130	135	140	
Phe	Asp	Thr	Leu	Leu	Glu	Glu	Tyr	Ser	Val	Leu	Asn	Lys	Asp	Ile	Gln	145	150	155	160
Glu	Asp	Ser	Gly	Met	Glu	Pro	Arg	Asn	Glu	Glu	Glu	Gly	Asn	Ser	Glu	165	170	175	
Glu	Ile	Lys	Ala	Lys	Val	Lys	Asn	Lys	Lys	Gln	Gly	Cys	Lys	Asn	Glu	180	185	190	
Glu	Val	Leu	Ala	Val	Leu	Gly	His	Glu	Leu	Gly	His	Trp	Lys	Leu	Gly	195	200	205	
His	Thr	Val	Lys	Asn	Ile	Ile	Ile	Ser	Gln	Met	Asn	Ser	Phe	Leu	Cys	210	215	220	
Phe	Phe	Leu	Phe	Ala	Val	Leu	Ile	Gly	Arg	Lys	Glu	Leu	Phe	Ala	Ala	225	230	235	240
Phe	Gly	Phe	Tyr	Asp	Ser	Gln	Pro	Thr	Leu	Ile	Gly	Leu	Leu	Ile	Ile	245	250	255	
Phe	Gln	Phe	Ile	Phe	Ser	Pro	Tyr	Asn	Glu	Val	Leu	Ser	Phe	Cys	Leu	260	265	270	
Thr	Val	Leu	Ser	Arg	Arg	Phe	Glu	Phe	Gln	Ala	Asp	Ala	Phe	Ala	Lys	275	280	285	
Lys	Leu	Gly	Lys	Ala	Lys	Asp	Leu	Tyr	Ser	Ala	Leu	Ile	Lys	Leu	Asn	290	295	300	
Lys	Asp	Asn	Leu	Gly	Phe	Pro	Val	Ser	Asp	Trp	Leu	Phe	Ser	Met	Trp	305	310	315	320
His	Tyr	Ser	His	Pro	Pro	Leu	Leu	Glu	Arg	Leu	Gln	Ala	Leu	Lys	Thr	325	330	335	

646

Met Lys Gln His
340

<210> 636
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 636
Ala Ser Ile Gly Arg Thr Gly Gly Ser Xaa Xaa Ser Cys Ser Gly Gly
1 5 10 15
Arg Leu Leu Gly Val Glu Phe Pro Ser Ala Pro Arg Val Arg Pro Phe
20 25 30
Glu Arg Ser Ala Pro Ala Pro Ala Thr Ser Leu Leu Gly Ala Met Thr
35 40 45
Thr Thr Thr Thr Phe Lys Gly Val Asp Pro Asn Ser Arg Asn Ser Ser
50 55 60
Arg Val Leu Arg Pro Pro Gly Gly Gly Ser Asn Phe Ser Leu Gly Phe
65 70 75 80
Asp Glu Pro Thr Glu Gln Pro Val Arg Lys Asn Lys Met Ala Ser Asn
85 90 95
Ile Phe Gly Thr Pro Glu Glu Asn Gln Ala Ser Trp Ala Lys Ser Ala
100 105 110
Gly Ala Lys Ser Ser Gly Gly Arg Glu Asp Leu Glu Ser Ser Gly Leu
115 120 125
Gln Arg Arg Asn Ser Ser Glu Ala Ser Ser Gly Asp Phe Leu Asp Leu
130 135 140
Lys Gly Glu Gly Asp Ile His Glu Asn Val Asp Thr Asp Leu Pro Gly
145 150 155 160

647

Ser Leu Gly Gln Ser Glu Glu Lys Pro Val Pro Ala Ala Pro Val Pro
165 170 175

Ser Pro Val Ala Pro Ala Pro Val Pro Ser Arg Arg Asn Pro Pro Gly
180 185 190

Gly Lys Ser Ser Leu Val Leu Gly
195 200

<210> 637

<211> 54

<212> PRT

<213> Homo sapiens

<400> 637

Ser Phe Arg Arg Pro Val Ala Met Leu Cys Ser Gln Ser Asn Phe Gln
1 5 10 15

Lys Thr Ile Asn Lys Lys Glu Ser Met Phe Lys Leu Lys Trp Asn Leu
20 25 30

Glu Asn Leu Ser Leu Leu Thr Tyr Phe Asn Ala Thr Gly Asn Leu Gly
35 40 45

Phe Thr Thr Lys Cys Cys
50

<210> 638

<211> 207

<212> PRT

<213> Homo sapiens

<400> 638

Ala Ala Pro Arg Arg His Arg Gly Ala Val Glu Ser Pro Pro Pro Asp
1 5 10 15

Pro Arg Pro Val Ala Arg Pro His Leu Ala Asn Arg Gly Gly Pro Arg
20 25 30

Ser Val Arg Thr Thr Pro Pro Leu Leu Ser Pro Pro Pro Asp His Ala
35 40 45

Pro Gln Leu Arg Lys Met Gly Asn Cys Leu Lys Ser Pro Thr Ser Asp
50 55 60

Asp Ile Ser Leu Leu His Glu Ser Gln Ser Asp Arg Ala Ser Phe Gly
65 70 75 80

Glu	Gly	Thr	Glu	Pro	Asp	Gln	Glu	Pro	Pro	Pro	Tyr	Gln	Glu	Gln	
				85					90					95	
Val	Pro	Val	Pro	Val	Tyr	His	Pro	Thr	Pro	Ser	Gln	Thr	Arg	Leu	Ala
				100					105					110	
Thr	Gln	Leu	Thr	Glu	Glu	Glu	Gln	Ile	Arg	Ile	Ala	Gln	Arg	Ile	Gly
				115					120					125	
Leu	Ile	Gln	His	Leu	Pro	Lys	Gly	Val	Tyr	Asp	Pro	Gly	Arg	Asp	Gly
				130					135					140	
Ser	Glu	Lys	Lys	Ile	Arg	Glu	Cys	Val	Ile	Cys	Met	Met	Asp	Phe	Val
145					150					155					160
Tyr	Gly	Asp	Pro	Ile	Arg	Phe	Leu	Pro	Cys	Met	His	Ile	Tyr	His	Leu
				165					170					175	
Asp	Cys	Ile	Asp	Asp	Trp	Leu	Met	Arg	Ser	Phe	Thr	Cys	Pro	Ser	Cys
				180					185					190	
Met	Glu	Pro	Val	Asp	Ala	Ala	Leu	Leu	Ser	Ser	Tyr	Glu	Thr	Asn	
				195					200					205	

```
<210> 639
<211> 142
<212> PRT
<213> Homo sapiens
```

```

<400> 639
Gly Gln Val Gln Gly Asn Ser Ser Ile Lys Leu Glu Leu Asp Ala Ser
  1                      5                      10                      15
Lys Lys Lys Glu Ser Lys Asp His Gln Leu Leu Arg Tyr Leu Leu Asp
      20                      25                      30
Lys Asp Glu Lys Asp Leu Arg Ser Thr Pro Asn Leu Ser Leu Asp Asp
      35                      40                      45
Val Lys Val Lys Val Glu Lys Lys Glu Gln Met Asp Pro Cys Asn Thr
      50                      55                      60
Asn Pro Thr Pro Met Thr Lys Pro Thr Pro Glu Glu Ile Lys Leu Glu
      65                      70                      75                      80
Ala Gln Ser Gln Phe Thr Ala Asp Leu Asp Gln Phe Asp Gln Leu Leu
      85                      90                      95

```

649

Pro Thr Leu Glu Lys Ala Ala Gln Leu Pro Gly Leu Cys Glu Thr Asp
 100 105 110

Arg Met Asp Gly Ala Val Thr Ser Val Thr Ile Lys Ser Glu Ile Leu
 115 120 125

Pro Ala Ser Leu Gln Ser Ala Leu Pro Asp Pro Leu Pro Gly
 130 135 140

<210> 640

<211> 106

<212> PRT

<213> Homo sapiens

<400> 640

Asp Asn Arg Arg Thr Phe Leu Pro Arg Leu Phe Val Gly Val Val Pro
 1 5 10 15

Gly Thr Gly Phe Gly Glu Leu Val Tyr Asn Gln Gly Leu Ile Leu Lys
 20 25 30

Met Ser Phe Phe Ile Leu Leu Phe Phe Lys His Gln Ile Leu Leu Phe
 35 40 45

Phe Phe Phe Leu Pro Ser Pro Gln Ile Pro Ser Gln Ile Ile Leu Leu
 50 55 60

Thr Thr Ile Pro Thr Gly Arg Gly Glu Leu Lys His Leu Leu Pro Leu
 65 70 75 80

Pro Cys Phe Ser Phe Ile Phe Tyr Phe Phe Ala Ser Val Leu Met Phe
 85 90 95

Leu His Thr Leu His Leu Tyr Ser Lys Val
 100 105

<210> 641

<211> 645

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

650

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 641

Cys Ala Xaa Arg Glu Arg Leu Lys Asn Pro Asn Ala Pro Met Leu Pro
 1 5 10 15

Pro Pro Lys Asn Lys Glu Asp Phe Glu Lys Thr Leu Ser Gln Ala Ile
 20 25 30

Val Lys Val Val Ile Pro Thr Glu Arg Asn Leu Leu Ala Leu Ile His
 35 40 45

Arg Met Ile Glu Phe Val Val Arg Glu Gly Pro Met Phe Glu Ala Met
 50 55 60

Xaa Met Asn Arg Glu Ile Asn Asn Pro Met Phe Arg Phe Leu Phe Glu
 65 70 75 80

Asn Gln Thr Pro Ala His Val Tyr Tyr Arg Trp Lys Leu Tyr Ser Ile
 85 90 95

Leu Gln Gly Asp Ser Pro Thr Lys Trp Arg Thr Glu Asp Phe Arg Met
 100 105 110

Phe Lys Asn Gly Ser Phe Trp Arg Pro Pro Pro Leu Asn Pro Tyr Leu
 115 120 125

His Gly Met Ser Glu Glu Gln Glu Thr Glu Ala Phe Val Glu Glu Pro
 130 135 140

Ser Lys Lys Gly Ala Leu Lys Glu Glu Gln Arg Asp Lys Leu Glu Glu
 145 150 155 160

Ile Leu Arg Gly Leu Thr Pro Arg Lys Asn Asp Ile Gly Asp Ala Met
 165 170 175

Val Phe Cys Leu Asn Asn Ala Glu Ala Ala Glu Glu Ile Val Asp Cys
 180 185 190

Ile Thr Glu Ser Leu Ser Ile Leu Lys Thr Pro Leu Pro Lys Lys Ile
 195 200 205

Ala Arg Leu Tyr Leu Val Ser Asp Val Leu Tyr Asn Ser Ser Ala Lys
 210 215 220

Val Ala Asn Ala Ser Tyr Tyr Arg Lys Phe Phe Glu Thr Lys Leu Cys
 225 230 235 240

Gln Ile Phe Ser Asp Leu Asn Ala Thr Tyr Arg Thr Ile Gln Gly His

651

	245		250		255
Leu Gln Ser Glu Asn Phe Lys Gln Arg Val Met Thr Cys Phe Arg Ala	260		265		270
Trp Glu Asp Trp Ala Ile Tyr Pro Glu Pro Phe Leu Ile Lys Leu Gln	275		280		285
Asn Ile Phe Leu Gly Leu Val Asn Ile Ile Glu Glu Lys Glu Thr Glu	290		295		300
Asp Val Pro Asp Asp Leu Asp Gly Ala Pro Ile Glu Glu Glu Leu Asp	305		310		315
Gly Ala Pro Leu Glu Asp Val Asp Gly Ile Pro Ile Asp Ala Thr Pro	325		330		335
Ile Asp Asp Leu Asp Gly Val Pro Ile Lys Ser Leu Asp Asp Asp Leu	340		345		350
Asp Gly Val Pro Leu Asp Ala Thr Glu Asp Ser Lys Lys Asn Glu Pro	355		360		365
Ile Phe Lys Val Ala Pro Ser Lys Trp Glu Ala Val Asp Glu Ser Glu	370		375		380
Leu Glu Ala Gln Ala Val Thr Thr Ser Lys Trp Glu Leu Phe Asp Gln	385		390		395
His Glu Glu Ser Glu Glu Glu Glu Asn Gln Asn Gln Glu Glu Glu Ser	405		410		415
Glu Asp Glu Glu Asp Thr Gln Ser Ser Lys Ser Glu Glu His His Leu	420		425		430
Tyr Ser Asn Pro Ile Lys Glu Glu Met Thr Glu Ser Lys Phe Ser Lys	435		440		445
Tyr Ser Glu Met Ser Glu Glu Lys Arg Ala Lys Leu Arg Glu Ile Glu	450		455		460
Leu Lys Val Met Lys Phe Gln Asp Glu Leu Glu Ser Gly Lys Arg Pro	465		470		475
Lys Lys Pro Gly Gln Ser Phe Gln Glu Gln Val Glu His Tyr Arg Asp	485		490		495
Lys Leu Leu Gln Arg Glu Lys Glu Lys Glu Leu Glu Arg Glu Arg Glu	500		505		510
Arg Asp Lys Lys Asp Lys Glu Lys Leu Glu Ser Arg Ser Lys Asp Lys					

652

515	520	525
Lys Glu Lys Asp Glu Cys Thr Pro Thr Arg Lys Glu Arg Lys Arg Arg		
530	535	540
His Ser Thr Ser Pro Ser Pro Ser Arg Ser Ser Ser Gly Arg Arg Val		
545	550	555 560
Lys Ser Pro Ser Pro Lys Ser Glu Arg Ser Glu Arg Ser Glu Arg Ser		
	565	570 575
His Lys Glu Ser Ser Arg Ser Arg Ser Ser His Lys Asp Ser Pro Arg		
	580	585 590
Asp Val Ser Lys Lys Ala Lys Arg Ser Pro Ser Gly Ser Arg Thr Pro		
595	600	605
Lys Arg Ser Arg Arg Ser Arg Ser Arg Ser Pro Lys Lys Ser Gly Lys		
610	615	620
Lys Ser Arg Ser Gln Ser Arg Ser Pro His Arg Ser His Lys Lys Ser		
625	630	635 640
Lys Lys Asn Lys His		
	645	

<210> 642

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 642

Trp Xaa Gly Val Ile Gly Thr Gly Arg Tyr Arg Val Cys Glu Val Asp
1 5 10 15

Pro Glu Leu Thr Glu Lys Leu Arg Lys Phe Arg Phe Arg Lys Glu Thr
20 25 30

Asp Asn Ala Ala Ile Ile Met Lys Val Asp Lys Asp Arg Gln Met Val

653

```

          35              40              45
Val Leu Glu Glu Glu Phe Gln Asn Ile Ser Pro Glu Glu Leu Lys Met
    50              55              60
Glu Leu Pro Glu Arg Gln Pro Arg Phe Val Val Tyr Ser Tyr Lys Tyr
    65              70              75              80
Val His Asp Asp Gly Arg Val Ser Tyr Pro Leu Cys Phe Ile Phe Ser
    85              90              95
Ser Pro Val Gly Cys Lys Xaa Glu Gln Gln Met Met Tyr Ala Gly Ser
    100             105             110
Lys Asn Arg Leu Val Gln Thr Ala Glu Leu Thr Lys Val Phe Glu Ile
    115             120             125
Arg Thr Thr Asp Asp Leu Thr Glu Ala Trp Leu Gln Glu Lys Leu Ser
    130             135             140
Phe Phe Arg
    145

```

<210> 643
 <211> 79
 <212> PRT
 <213> Homo sapiens

```

<400> 643
Lys Asn Thr Ile Ser Asn Asn Ser Asp Met Ala Glu Val Lys Ser Met
    1              5              10              15
Phe Arg Glu Val Leu Pro Lys Gln Gly Pro Leu Phe Val Glu Asp Ile
    20              25              30
Met Thr Met Val Leu Cys Lys Pro Lys Leu Leu Pro Leu Lys Ser Leu
    35              40              45
Thr Leu Glu Lys Leu Glu Lys Met His Gln Ala Ala Gln Asn Thr Ile
    50              55              60
Arg Gln Gln Glu Met Ala Glu Lys Asp Gln Arg Gln Ile Thr His
    65              70              75

```

<210> 644
 <211> 273
 <212> PRT

654

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 644

Xaa Ala Gly Pro Arg Ser Ile Arg Cys Pro Leu Ile Phe Leu Pro Pro
 1 5 10 15

Val Ser Gly Thr Ala Asp Val Phe Phe Arg Gln Ile Leu Ala Leu Thr
 20 25 30

Gly Trp Gly Tyr Arg Val Ile Ala Leu Gln Tyr Pro Val Tyr Trp Asp
 35 40 45

His Leu Glu Phe Cys Asp Gly Phe Arg Lys Leu Leu Asp His Leu Gln
 50 55 60

Leu Asp Lys Val His Leu Phe Gly Ala Ser Leu Gly Gly Phe Leu Ala
 65 70 75 80

Gln Lys Phe Ala Glu Tyr Thr His Lys Ser Pro Arg Val His Ser Leu
 85 90 95

Ile Leu Cys Asn Ser Phe Ser Asp Thr Ser Ile Phe Asn Gln Thr Trp
 100 105 110

Thr Ala Asn Ser Phe Trp Leu Met Pro Ala Phe Met Leu Lys Lys Ile
 115 120 125

Val Leu Gly Asn Phe Ser Ser Gly Pro Val Asp Pro Met Met Ala Asp
 130 135 140

Ala Ile Asp Phe Met Val Asp Arg Leu Glu Ser Leu Gly Gln Ser Glu
 145 150 155 160

Leu Ala Ser Arg Leu Thr Leu Asn Cys Gln Asn Ser Tyr Val Glu Pro
 165 170 175

His Lys Ile Arg Asp Ile Pro Val Thr Ile Met Asp Val Phe Asp Gln
 180 185 190

Ser Ala Leu Ser Thr Glu Ala Lys Glu Glu Met Tyr Lys Leu Tyr Pro
 195 200 205

Asn Ala Arg Arg Ala His Leu Lys Thr Gly Gly Asn Phe Pro Tyr Leu
 210 215 220

Cys Arg Ser Ala Glu Val Asn Leu Tyr Val Gln Ile His Leu Leu Gln

655

225 230 235 240
 Phe His Gly Thr Lys Tyr Ala Ala Ile Asp Pro Ser Met Val Ser Ala
 245 250 255
 Glu Glu Leu Glu Val Gln Lys Gly Ser Leu Gly Ile Ser Gln Glu Glu
 260 265 270
 Gln

<210> 645
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 645
 Phe Ala Asn Ser Tyr Leu Leu Asn Gly Glu Val Leu Lys Ile Ser Pro
 1 5 10 15
 Gly Lys Phe Lys Ile Gln Thr Pro Ser Ile Glu His Leu His Cys Val
 20 25 30
 Pro Gly Ser Lys Ile Gly Ala Phe Ile His Ile Val Ser Ile Pro Val
 35 40 45
 Arg Ser Glu Leu Ser Leu His Leu Lys Leu Glu Glu Thr Cys Ser Glu
 50 55 60
 Cys Lys Lys Leu Pro Cys Leu Arg Ser Pro Arg Lys Glu Pro Ser Glu
 65 70 75 80
 Pro Ala Thr Glu Ser Trp Ser Leu
 85

<210> 646
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 646
 Phe Tyr Asn Glu Met Leu Leu Ser Ile Gly Met Leu Met Leu Ser Ala
 1 5 10 15
 Thr Gln Val Tyr Thr Ile Leu Thr Val Gln Leu Phe Ala Phe Leu Asn
 20 25 30

656

```

Leu Leu Pro Val Glu Ala Asp Ile Leu Ala Tyr Asn Phe Glu Asn Ala
   35               40               45

Ser Gln Thr Phe Asp Asp Leu Pro Ala Arg Phe Gly Tyr Arg Leu Pro
   50               55               60

Ala Glu Gly Leu Lys Gly Phe Leu Ile Asn Ser Lys Pro Glu Asn Ala
   65               70               75               80

Cys Glu Pro Ile Val Pro Pro Pro Val Lys Arg Gln Phe Ile Trp Ala
           85               90               95

Leu Ser Ser Cys
           100

```

<210> 647

<211> 190

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 647

```

Met Leu Asp Ile Ser Gly Phe Gln Gly Gly Pro Val Glu Ile Leu Pro
  1               5               10               15

Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ser Arg Lys Asp Met Leu
   20               25               30

Asp Ala Leu Gly Ile Thr Ala Leu Ile Asn Val Ser Ala Asn Cys Pro
   35               40               45

Asn His Phe Glu Gly His Tyr Gln Tyr Lys Ser Ile Pro Val Glu Asp
   50               55               60

Asn His Lys Ala Asp Ile Ser Ser Trp Phe Asn Glu Ala Ile Asp Phe
   65               70               75               80

Ile Asp Ser Ile Lys Asn Ala Gly Gly Arg Val Phe Val His Cys Gln
           85               90               95

Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Arg
   100               105               110

Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Glu Phe Val Lys Gln Arg
   115               120               125

```

657

Arg Xaa Ser Ser Leu Pro Thr Ser Ala Ser Trp Ala Ser Cys Cys Ser
 130 135 140

Leu Ser Pro Arg Cys Trp Leu Arg Thr Val Arg Gln Arg Leu Gly Ala
 145 150 155 160

Pro Pro Trp Leu Cys Ser Thr Glu Ala Pro Pro Pro Pro Pro Cys Ser
 165 170 175

Thr Ser Pro Ser Pro Ser Leu Ser Thr Pro Arg Thr Val Arg
 180 185 190

<210> 648

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 648

Ser Gln Asp Gln Gly Glu Arg Gly Gly Ala Gly Ala Ala Arg Gln Phe
 1 5 10 15

Leu Leu Val Asn Phe Asn His Ile His Lys Arg Ile Arg Arg Val Ala
 20 25 30

Asp Lys Tyr Leu Ser Gly Leu Val Asp Lys Phe Pro His Leu Leu Trp
 35 40 45

Ser Gly Thr Val Leu Lys Thr Met Leu Asp Ile Leu Gln Thr Leu Ser
 50 55 60

Leu Ser Leu Ser Ala Asp Ile His Lys Asp Gln Pro Tyr Tyr Asp Ile
 65 70 75 80

Pro Asp Ala Pro Tyr Arg Ile Thr Val Pro Asp Thr Tyr Glu Ala Arg
 85 90 95

Glu Ser Ile Val Lys Asp Phe Ala Ala Arg Cys Gly Met Ile Leu Gln
 100 105 110

Glu Ala Met Lys Trp Ala Pro Thr Val Thr Lys Ser His Leu Gln Glu
 115 120 125

Tyr Leu Asn Lys His Xaa Asn Trp Val Ser Gly Leu Ser Gln His Thr

658

```

      130              135              140
Gly Leu Ala Met Ala Thr Glu Ser Ile Leu His Phe Ala Gly Tyr Asn
145              150              155              160

Lys Gln Asn Thr Thr Leu Gly Ala Thr Gln Leu Ser Glu Arg Pro Ala
      165              170              175

Cys Val Lys Lys Asp Tyr Ser Asn Phe Met Ala Ser Leu Asn Leu Arg
      180              185              190

Asn Arg Tyr Ala Gly Glu Val Tyr Gly Met Ile Arg Phe Ser Gly Thr
      195              200              205

Thr Gly Gln Met Ser Asp Leu Asn Lys Met Met Val Gln Asp Leu His
      210              215              220

Ser Ala Leu Asp Arg Ser His Pro Gln His Tyr Thr Gln Ala Met Phe
225              230              235              240

Lys Leu Thr Ala Met Leu Ile Ser Ser Lys Asp Cys Asp Pro Gln Leu
      245              250              255

Leu His His Leu Cys Trp Gly Pro Leu Arg Met Phe Asn Glu His Gly
      260              265              270

Met Glu Thr Ala Leu Ala Cys Trp Glu Trp Leu Leu Ala Gly Lys Asp
      275              280              285

Gly Val Glu Val Pro Phe Leu Val Thr Trp His Thr Ile Asp Ala Asp
      290              295              300

Ala Gln Ser Ser Ala Met Cys Cys Ala Gly Arg Pro Arg Thr His Pro
305              310              315              320

Gln Ala Ser Pro Thr Ser Pro Ala Cys Thr Arg Arg Thr Leu Ser Arg
      325              330              335

Arg Ser Thr Gly
      340

```

<210> 649

<211> 214

<212> PRT

<213> Homo sapiens

<400> 649

```

Ala Val Arg Arg Gly Ala Gly Cys Pro Ala Pro Gly Val Arg Ala Arg
  1              5              10              15

```

659

Gly Ala Met Ala His Val Gly Ser Arg Lys Arg Ser Arg Ser Arg Ser
 20 25 30
 Arg Ser Arg Gly Arg Gly Ser Glu Lys Arg Lys Lys Lys Ser Arg Lys
 35 40 45
 Asp Thr Ser Arg Asn Cys Ser Ala Ser Thr Ser Gln Gly Arg Lys Ala
 50 55 60
 Ser Thr Ala Pro Gly Ala Glu Glu Arg Ser Lys Gln Lys Ala Arg Arg
 65 70 75 80
 Arg Thr Arg Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser
 85 90 95
 Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Gly Arg Lys
 100 105 110
 Lys Arg Gly Lys Tyr Lys Asp Lys Arg Arg Lys Lys Lys Lys Lys Arg
 115 120 125
 Lys Lys Leu Lys Lys Lys Gly Lys Glu Lys Ala Glu Ala Gln Gln Val
 130 135 140
 Glu Ala Leu Pro Gly Pro Ser Leu Asp Gln Trp His Arg Ser Ala Gly
 145 150 155 160
 Glu Glu Glu Asp Gly Pro Val Leu Thr Asp Glu Gln Lys Ser Arg Ile
 165 170 175
 Gln Ala Met Lys Pro Met Thr Lys Glu Glu Trp Asp Ala Arg Gln Ser
 180 185 190
 Ile Ile Arg Lys Trp Trp Thr Leu Arg Arg Gly Ala Pro Gly Leu Leu
 195 200 205
 Arg Glu Met Ala Arg Ser
 210

<210> 650

<211> 401

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (375)

<223> Xaa equals any of the naturally occurring L-amino acids

660

<220>

<221> SITE

<222> (396)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 650

Gly Arg Val Gly Gln Lys Ser Gln Lys Pro Arg Asp Ser Ser Val Glu
 1 5 10 15

Val Arg Ser Asp Trp Glu Val Lys Glu Glu Met Asp Phe Pro Gln Leu
 20 25 30

Met Lys Met Arg Tyr Leu Glu Val Ser Glu Pro Gln Asp Ile Glu Cys
 35 40 45

Cys Gly Ala Leu Glu Tyr Tyr Asp Lys Ala Phe Asp Arg Ile Thr Thr
 50 55 60

Arg Ser Glu Lys Pro Leu Arg Ser Ile Lys Arg Ile Phe His Thr Val
 65 70 75 80

Thr Thr Thr Asp Asp Pro Val Ile Arg Lys Leu Ala Lys Thr Gln Gly
 85 90 95

Asn Val Phe Ala Thr Asp Ala Ile Leu Ala Thr Leu Met Ser Cys Thr
 100 105 110

Arg Ser Val Tyr Ser Trp Asp Ile Val Val Gln Arg Val Gly Ser Lys
 115 120 125

Leu Phe Phe Asp Lys Arg Asp Asn Ser Asp Phe Asp Leu Leu Thr Val
 130 135 140

Ser Glu Thr Ala Asn Glu Pro Pro Gln Asp Glu Gly Asn Ser Phe Asn
 145 150 155 160

Ser Pro Arg Asn Leu Ala Met Glu Ala Thr Tyr Ile Asn His Asn Phe
 165 170 175

Ser Gln Gln Cys Leu Arg Met Gly Lys Glu Arg Tyr Asn Phe Pro Asn
 180 185 190

Pro Asn Pro Phe Val Glu Asp Asp Met Asp Lys Asn Glu Ile Ala Ser
 195 200 205

Val Ala Tyr Arg Tyr Arg Ser Gly Lys Leu Gly Asp Asp Ile Asp Leu
 210 215 220

Ile Val Arg Cys Glu His Asp Gly Val Met Thr Gly Ala Asn Gly Glu
 225 230 235 240

661

Val Ser Phe Ile Asn Ile Lys Thr Leu Asn Glu Trp Asp Ser Arg His
 245 250 255

Cys Asn Gly Val Asp Trp Arg Gln Lys Leu Asp Ser Gln Arg Gly Ala
 260 265 270

Val Ile Ala Thr Glu Leu Lys Asn Asn Ser Tyr Lys Leu Ala Arg Trp
 275 280 285

Thr Cys Cys Ala Leu Leu Ala Gly Ser Glu Tyr Leu Lys Leu Gly Tyr
 290 295 300

Val Ser Arg Tyr His Val Lys Asp Ser Ser Arg His Val Ile Leu Gly
 305 310 315 320

Thr Gln Gln Phe Lys Pro Asn Glu Phe Ala Ser Gln Ile Asn Leu Ser
 325 330 335

Val Glu Asn Ala Trp Gly Ile Leu Arg Cys Val Ile Asp Ile Cys Met
 340 345 350

Lys Leu Glu Glu Gly Lys Tyr Leu Ile Leu Lys Asp Pro Asn Lys Gln
 355 360 365

Val Ile Arg Val Tyr Ser Xaa Pro Asp Gly Thr Phe Ser Ser Asp Glu
 370 375 380

Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Xaa Glu Glu Glu Glu
 385 390 395 400

Thr

<210> 651

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

662

<400> 651

Thr Glu Leu His Thr Gly Arg Glu Thr Lys Asn Ile Thr Ser Ile Leu
 1 5 10 15

Val Ser Trp Xaa Leu Phe Phe Leu Arg Glu Ser His Ser Val Ala Gly
 20 25 30

Leu Glu Tyr Ser Gly Xaa Gly Ser Arg Ala His Cys Asn Pro Leu Ala
 35 40 45

Ser Arg Gly Ser Ser Gln Ser Pro Ala Phe
 50 55

<210> 652

<211> 211

<212> PRT

<213> Homo sapiens

<400> 652

Ser Thr Ser Trp Phe Ser Leu Trp Met Glu Arg Ala Trp Ala Ser Leu
 1 5 10 15

Gly Glu Gly Glu Ala Arg Gly Ala Gly Leu Glu Trp Glu Thr Cys Trp
 20 25 30

Pro Val Gly Leu Thr Cys Pro Ser Val Leu Ser Pro His Ile Leu Leu
 35 40 45

Pro Ser Ser Ser His Thr His Thr Phe Gln Gly Trp Gly Glu Pro Asp
 50 55 60

Cys Gln Asp Pro Arg Ser Gly Ala Pro Tyr Ile Pro Gln Ser Gly Ile
 65 70 75 80

His Phe Leu Val Pro Gly Met Ala Met Gly Thr Leu Pro Leu Cys Arg
 85 90 95

Asp Gln Trp Asp Gly Leu Tyr Leu Ser Phe Ser Lys Arg Gly Leu Cys
 100 105 110

Pro Pro Gly Val Ser Leu Pro Thr Ser Leu Leu Arg Gly Asn Asn Arg
 115 120 125

Arg Met Gly Phe Leu Leu Trp Gly Glu Phe Ile Pro Ser Pro Arg Val
 130 135 140

Pro Ser His Thr Val Ile Leu Pro Ser Cys Pro Arg Arg Pro Ala Ala
 145 150 155 160

663

Gly Lys Glu Leu Pro Arg Lys His Ser Leu Gly Gln Val Leu Ala Phe
 165 170 175
 Leu Asn Phe Arg Asp Ser Tyr Arg Lys Glu Gly Asn Lys Glu Phe Ser
 180 185 190
 Ser Ala Ala Pro Phe Pro Thr Pro Thr Pro Ser Leu Gln Gly Pro Leu
 195 200 205
 Pro Ala Ser
 210

<210> 653
 <211> 286
 <212> PRT
 <213> Homo sapiens

<400> 653
 Ser Arg Arg Pro Pro Ala Ala Cys Ser Arg Leu Leu Arg Glu Pro Ser
 1 5 10 15
 Arg Pro Gly Ala Pro His Arg Arg Gly Thr Gly Arg Ser Cys Ser Gly
 20 25 30
 Thr Arg Gly Arg Trp Asp Thr Gly Gly Leu Asp Thr Ser Leu Gly Arg
 35 40 45
 Asn Arg Leu Arg Phe Ser Pro Glu Gly Lys Arg Ala Pro Gly Ala Gly
 50 55 60
 Pro Gly Gly Ser Ile Arg Ile Tyr Ser Met Arg Phe Cys Pro Phe Ala
 65 70 75 80
 Glu Arg Thr Arg Leu Val Leu Lys Ala Lys Gly Ile Arg His Glu Val
 85 90 95
 Ile Asn Ile Asn Leu Lys Asn Lys Pro Glu Trp Phe Phe Lys Lys Asn
 100 105 110
 Pro Phe Gly Leu Val Pro Val Leu Glu Asn Ser Gln Gly Gln Leu Ile
 115 120 125
 Tyr Glu Ser Ala Ile Thr Cys Glu Tyr Leu Asp Glu Ala Tyr Pro Gly
 130 135 140
 Lys Lys Leu Leu Pro Asp Asp Pro Tyr Glu Lys Ala Cys Gln Lys Met
 145 150 155 160
 Ile Leu Glu Leu Phe Ser Lys Val Pro Ser Leu Val Gly Ser Phe Ile

664

	165		170		175
Arg Ser Gln Asn Lys Glu Asp Tyr	Ala Gly Leu Lys Glu Glu Phe Arg				
180	185	190			
Lys Glu Phe Thr Lys Leu Glu Glu Val Leu Thr Asn Lys Lys Thr Thr					
195	200	205			
Phe Phe Gly Gly Asn Ser Ile Ser Met Ile Asp Tyr Leu Ile Trp Pro					
210	215	220			
Trp Phe Glu Arg Leu Glu Ala Met Lys Leu Asn Glu Cys Val Asp His					
225	230	235	240		
Thr Pro Lys Leu Lys Leu Trp Met Ala Ala Met Lys Glu Asp Pro Thr					
245	250	255			
Val Ser Ala Leu Leu Thr Ser Glu Lys Asp Trp Gln Gly Phe Leu Glu					
260	265	270			
Leu Tyr Leu Gln Asn Ser Pro Glu Ala Cys Asp Tyr Gly Leu					
275	280	285			

<210> 654

<211> 92

<212> PRT

<213> Homo sapiens

<400> 654

Ser Gln Ala Arg Gly Gln Gly Gln Gly Gly Arg Ser Trp Gly Ala Gly
1 5 10 15

Ala Leu Gly Gln Ser Gly Pro Pro Pro Ala Ala Cys Pro Val Gly Leu
20 25 30

Trp Lys Gly Ala Leu Gly Ser Arg Cys Trp Glu Pro Glu Leu Gly Arg
35 40 45

Ala Trp Ala Gly Gly Val Pro Pro Ser His Lys Gly Trp Ala Glu Thr
50 55 60

Gln Leu Ser Ala Ala Trp Arg Phe Pro Phe Trp Gly Gly Leu Arg Ser
65 70 75 80

Cys His Leu Val Leu Cys Pro His Arg Asn Gln Arg
85 90

665

<210> 655

<211> 281

<212> PRT

<213> Homo sapiens

<400> 655

```

Pro Pro Leu Ala Pro Thr Ala Thr Ala Gly Thr Leu Ala Ala Ser Glu
  1           5           10           15

Gly Arg Trp Lys Ser Met Arg Lys Ser Pro Leu Gly Gly Gly Gly Gly
  20           25           30

Ser Gly Ala Ser Ser Gln Ala Ala Cys Leu Lys Gln Ile Leu Leu Leu
  35           40           45

Gln Leu Asp Leu Ile Glu Gln Gln Gln Gln Leu Gln Ala Lys Glu
  50           55           60

Lys Glu Ile Glu Glu Leu Lys Ser Glu Arg Asp Thr Leu Leu Ala Arg
  65           70           75           80

Ile Glu Arg Met Glu Arg Arg Met Gln Leu Val Lys Lys Asp Asn Glu
  85           90           95

Lys Glu Arg His Lys Leu Phe Gln Gly Tyr Glu Thr Glu Glu Arg Glu
 100           105           110

Glu Thr Glu Leu Ser Glu Lys Ile Lys Leu Glu Cys Gln Pro Glu Leu
 115           120           125

Ser Glu Thr Ser Gln Thr Leu Pro Pro Lys Pro Phe Ser Cys Gly Arg
 130           135           140

Ser Gly Lys Gly His Lys Arg Lys Ser Pro Phe Gly Ser Thr Glu Arg
 145           150           155           160

Lys Thr Pro Val Lys Lys Leu Ala Pro Glu Phe Ser Lys Val Lys Thr
 165           170           175

Lys Thr Pro Lys His Ser Pro Ile Lys Glu Glu Pro Cys Gly Ser Leu
 180           185           190

Ser Glu Thr Val Cys Lys Arg Glu Leu Arg Ser Gln Glu Thr Pro Glu
 195           200           205

Lys Pro Arg Ser Ser Val Asp Thr Pro Pro Arg Leu Ser Thr Pro Gln
 210           215           220

Lys Gly Pro Ser Thr His Pro Lys Glu Lys Ala Phe Ser Ser Glu Ile
 225           230           235           240

```

666

Glu	Asp	Leu	Pro	Tyr	Leu	Ser	Thr	Thr	Glu	Met	Tyr	Leu	Cys	Arg	Trp
				245					250					255	
His	Gln	Pro	Pro	Pro	Ser	Pro	Leu	Pro	Leu	Arg	Glu	Ser	Ser	Pro	Lys
			260					265					270		
Lys	Glu	Glu	Thr	Val	Ala	Ser	Lys	Ala							
		275					280								

```
<210> 656
<211> 258
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 656
Glu Lys Lys Leu Ser Cys Leu Gln Ala Ala Val Thr Ala Ser Arg Thr
  1              5              10              15

Leu Ser Ala Leu Leu Pro Thr Cys Thr Pro Gly Leu Ser Ile Pro Val
      20              25              30

Pro Pro Asp Lys Arg Gly Gln Val Ser Gln Glu Leu Pro Pro Pro Cys
      35              40              45

Ser Thr Ala Lys Lys Thr Pro Phe His Asp Phe Pro Pro Arg Pro Arg
      50              55              60

Ser Tyr Leu Pro Thr Pro Leu Ser Glu Ser Pro Gly Thr His Arg Gly
  65              70              75              80

Ala His His Ile Pro Leu Ser Thr Leu Pro Ala Ser Pro Thr Cys His
      85              90              95

Pro Leu Pro Cys Pro Ser Pro Thr Pro Gln Leu Gln Glu Trp Lys Lys
      100              105              110

Ser Pro Arg Ser Ser Gly Ser Pro Ser Pro His Pro Glu Leu Arg Leu
      115              120              125

Gly Tyr Leu Leu Gln His Pro Cys Gln Asp Phe Ser Thr Leu Leu His
      130              135              140

Thr Ser Arg Asp Arg Glu Leu Thr Thr Ser Gln Gly Ser Leu Leu Pro
  145              150              155              160

```

667

Leu Asp Cys Ser Asp Phe Ser Ile Ser Leu Ile His Arg Arg Gly Phe
 165 170 175
 Cys Phe Ser Val Ala Leu Ser Met Xaa Ser His Leu Pro Thr Leu Leu
 180 185 190
 Pro Gly Val Leu Arg Ser His Ile Asp Ser Pro Glu Pro Ser Ser Leu
 195 200 205
 Gln Ala Lys Glu Ser Arg Arg His Arg Gly His Phe Cys Cys Asn Lys
 210 215 220
 Val Ser Cys Leu Phe Thr Val Arg Thr Phe Leu Ser Ile Pro Ser Arg
 225 230 235 240
 Leu Gly Gln Gly Asp Ser Gln Met His Thr His Lys Tyr Ser Val Leu
 245 250 255
 Lys Leu

<210> 657
 <211> 485
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (145)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 657
 Ser Leu Ala Met Ala Ser Phe Ser Ala Glu Thr Asn Ser Thr Asp Leu
 1 5 10 15
 Leu Ser Gln Pro Trp Asn Glu Pro Pro Val Ile Leu Ser Met Val Ile
 20 25 30
 Leu Ser Leu Thr Phe Leu Leu Gly Leu Pro Gly Asn Gly Leu Val Leu
 35 40 45
 Trp Val Ala Gly Leu Lys Met Gln Arg Thr Val Asn Thr Ile Trp Phe
 50 55 60
 Leu His Leu Thr Leu Ala Asp Leu Leu Cys Cys Leu Ser Leu Pro Phe
 65 70 75 80
 Ser Leu Ala His Leu Ala Leu Gln Gly Gln Trp Pro Tyr Gly Arg Phe

668

85										90					95				
Leu	Cys	Lys	Leu	Ile	Pro	Ser	Ile	Ile	Val	Leu	Asn	Met	Phe	Ala	Ser				
			100					105						110					
Val	Phe	Leu	Leu	Thr	Ala	Ile	Ser	Leu	Asp	Arg	Cys	Leu	Val	Val	Phe				
		115					120					125							
Lys	Pro	Ile	Trp	Cys	Gln	Asn	His	Arg	Asn	Val	Gly	Met	Ala	Cys	Ser				
		130				135					140								
Xaa	Cys	Gly	Cys	Ile	Trp	Val	Val	Ala	Cys	Val	Met	Cys	Ile	Pro	Val				
145					150					155					160				
Phe	Val	Tyr	Arg	Glu	Ile	Phe	Thr	Thr	Asp	Asn	His	Asn	Arg	Cys	Gly				
				165					170					175					
Tyr	Lys	Phe	Gly	Leu	Ser	Ser	Ser	Leu	Asp	Tyr	Pro	Asp	Phe	Tyr	Gly				
			180					185					190						
Asp	Pro	Leu	Glu	Asn	Arg	Ser	Leu	Glu	Asn	Ile	Val	Gln	Pro	Pro	Gly				
		195					200					205							
Glu	Met	Asn	Asp	Arg	Leu	Asp	Pro	Ser	Ser	Phe	Gln	Thr	Asn	Asp	His				
		210				215					220								
Pro	Trp	Thr	Val	Pro	Thr	Val	Phe	Gln	Pro	Gln	Thr	Phe	Gln	Arg	Pro				
225					230					235					240				
Ser	Ala	Asp	Ser	Leu	Pro	Arg	Gly	Ser	Ala	Arg	Leu	Thr	Ser	Gln	Asn				
				245					250					255					
Leu	Tyr	Ser	Asn	Val	Phe	Lys	Pro	Ala	Asp	Val	Val	Ser	Pro	Lys	Ile				
			260					265					270						
Pro	Ser	Gly	Phe	Pro	Ile	Glu	Asp	His	Glu	Thr	Ser	Pro	Leu	Asp	Asn				
		275				280						285							
Ser	Asp	Ala	Phe	Leu	Ser	Thr	His	Leu	Lys	Leu	Phe	Pro	Ser	Ala	Ser				
		290				295					300								
Ser	Asn	Ser	Phe	Tyr	Glu	Ser	Glu	Leu	Pro	Gln	Gly	Phe	Gln	Asp	Tyr				
305				310						315				320					
Tyr	Asn	Leu	Gly	Gln	Phe	Thr	Asp	Asp	Asp	Gln	Val	Pro	Thr	Pro	Leu				
			325						330					335					
Val	Ala	Ile	Thr	Ile	Thr	Arg	Leu	Val	Val	Gly	Phe	Leu	Leu	Pro	Ser				
			340					345					350						
Val	Ile	Met	Ile	Ala	Cys	Tyr	Ser	Phe	Ile	Val	Phe	Arg	Met	Gln	Arg				

669

355 360 365
 Gly Arg Phe Ala Lys Ser Gln Ser Lys Thr Phe Arg Val Ala Val Val
 370 375 380
 Val Val Ala Val Phe Leu Val Cys Trp Thr Pro Tyr His Ile Phe Gly
 385 390 395 400
 Val Leu Ser Leu Leu Thr Asp Pro Glu Thr Pro Leu Gly Lys Thr Leu
 405 410 415
 Met Ser Trp Asp His Val Cys Ile Ala Leu Ala Ser Ala Asn Ser Cys
 420 425 430
 Phe Asn Pro Phe Leu Tyr Ala Leu Leu Gly Lys Asp Phe Arg Lys Lys
 435 440 445
 Ala Arg Gln Ser Ile Gln Gly Ile Leu Glu Ala Ala Phe Ser Glu Glu
 450 455 460
 Leu Thr Arg Ser Thr His Cys Pro Ser Asn Asn Val Ile Ser Glu Arg
 465 470 475 480
 Asn Ser Thr Thr Val
 485

<210> 658
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 658
 Gln Arg Tyr Val Ile Asn Pro Asn Ala Gln Pro Asn Cys Tyr Val Ile
 1 5 10 15
 Pro Ile Pro Ile Leu Cys Asn Ile Cys Ser Phe Leu Glu Arg Gly Tyr
 20 25 30
 Val Ser Arg Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu
 35 40 45
 Ala Glu Ala Gly Gly Leu Pro Glu Val Arg Ser
 50 55

<210> 659
 <211> 333
 <212> PRT

670

<213> Homo sapiens

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (260)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 659

Ser	Thr	Glu	Arg	Asp	Phe	Phe	Met	Arg	Met	Lys	Cys	Thr	Val	Thr	Asn
1					5				10					15	

Arg	Gly	Arg	Thr	Val	Asn	Leu	Lys	Ser	Ala	Thr	Trp	Lys	Val	Leu	His
				20				25					30		

Cys	Thr	Gly	Gln	Val	Lys	Val	Tyr	Asn	Asn	Cys	Pro	Pro	His	Asn	Ser
		35					40					45			

Leu	Cys	Gly	Tyr	Lys	Glu	Pro	Leu	Leu	Ser	Cys	Leu	Ile	Ile	Met	Cys
	50					55					60				

Glu	Pro	Ile	Gln	His	Pro	Ser	His	Met	Asp	Ile	Pro	Leu	Asp	Ser	Lys
65					70					75					80

Thr	Phe	Leu	Ser	Arg	His	Ser	Met	Asp	Met	Lys	Phe	Thr	Tyr	Cys	Asp
				85					90					95	

Asp	Arg	Ile	Thr	Glu	Leu	Ile	Gly	Tyr	His	Pro	Glu	Glu	Leu	Leu	Gly
				100				105					110		

Arg	Ser	Ala	Tyr	Glu	Phe	Tyr	His	Ala	Leu	Asp	Ser	Glu	Asn	Met	Thr
		115					120					125			

Lys	Ser	His	Gln	Asn	Leu	Cys	Thr	Lys	Gly	Gln	Val	Val	Ser	Gly	Gln
	130					135					140				

Tyr	Arg	Met	Leu	Ala	Lys	His	Gly	Gly	Tyr	Val	Trp	Leu	Glu	Thr	Gln
145					150					155					160

Gly	Thr	Val	Ile	Tyr	Asn	Pro	Arg	Asn	Leu	Gln	Pro	Gln	Cys	Ile	Met
				165					170					175	

Cys	Val	Asn	Tyr	Val	Leu	Ser	Glu	Ile	Xaa	Lys	Asn	Asp	Val	Val	Phe
		180							185				190		

Ser	Met	Asp	Gln	Thr	Glu	Ser	Leu	Phe	Lys	Pro	His	Leu	Met	Ala	Met
		195					200					205			

671

Asn Ser Ile Phe Asp Ser Ser Gly Lys Gly Ala Val Ser Glu Lys Ser
 210 215 220
 Asn Phe Leu Phe Thr Lys Leu Lys Glu Glu Pro Glu Glu Leu Ala Gln
 225 230 235 240
 Leu Ala Pro Thr Pro Gly Asp Ala Ile Ile Ser Leu Asp Phe Gly Asn
 245 250 255
 Gln Asn Phe Xaa Glu Ser Ser Ala Tyr Gly Lys Ala Ile Leu Pro Pro
 260 265 270
 Ser Gln Pro Trp Ala Thr Glu Leu Arg Ser His Ser Thr Gln Ser Glu
 275 280 285
 Leu Gly Ala Cys Leu Pro Ser Pro Cys Pro Arg Gln Leu Pro Arg Ala
 290 295 300
 Ala Pro Pro Pro Val Pro Pro Ala Ala Ala Ala Ala Pro Arg Pro
 305 310 315 320
 Ile Ala Leu Lys Thr Ile Thr His Leu Trp Ile Thr Thr
 325 330

<210> 660

<211> 185

<212> PRT

<213> Homo sapiens

<400> 660

Gln Ala Glu Ala Glu His Arg His Arg Pro Asp Arg Arg Ala Cys Cys
 1 5 10 15
 His Leu Pro Gly Arg Ala Val Thr Gly Met Asp Pro Val Ala Arg Arg
 20 25 30
 Leu Leu Trp Asp Thr Val Ala Arg Ala Arg Glu Ser Gly Lys Ala Ile
 35 40 45
 Ile Ile Thr Ser His Ser Met Glu Glu Cys Glu Ala Leu Cys Thr Arg
 50 55 60
 Leu Ala Ile Met Val Gln Gly Gln Phe Lys Cys Leu Gly Ser Pro Gln
 65 70 75 80
 His Leu Lys Ser Lys Phe Gly Ser Gly Tyr Ser Leu Arg Ala Lys Val
 85 90 95

672

Gln Ser Glu Gly Gln Gln Glu Ala Leu Glu Glu Phe Lys Ala Phe Val
 100 105 110
 Asp Leu Thr Phe Pro Gly Ser Val Leu Glu Asp Glu His Gln Gly Met
 115 120 125
 Val His Tyr His Leu Pro Gly Arg Asp Leu Ser Trp Ala Lys Val Phe
 130 135 140
 Gly Ile Leu Glu Lys Ala Lys Glu Lys Tyr Gly Val Asp Asp Tyr Ser
 145 150 155 160
 Val Ser Gln Ile Ser Leu Glu Gln Val Phe Leu Ser Phe Ala His Leu
 165 170 175
 Gln Pro Pro Thr Ala Glu Glu Gly Arg
 180 185

<210> 661
 <211> 390
 <212> PRT
 <213> Homo sapiens

<400> 661
 Gly Arg Ala Pro Lys Glu Ala Glu Gly Ala Glu Asp Arg Gln Pro Ala
 1 5 10 15
 Ser Arg Arg Gly Ala Gly Thr Thr Ala Ala Met Ala Ala Ser Gly Pro
 20 25 30
 Gly Cys Arg Ser Trp Cys Leu Cys Pro Glu Val Pro Ser Ala Thr Phe
 35 40 45
 Phe Thr Ala Leu Leu Ser Leu Leu Val Ser Gly Pro Arg Leu Phe Leu
 50 55 60
 Leu Gln Gln Pro Leu Ala Pro Ser Gly Leu Thr Leu Lys Ser Glu Ala
 65 70 75 80
 Leu Arg Asn Trp Gln Val Tyr Arg Leu Val Thr Tyr Ile Phe Val Tyr
 85 90 95
 Glu Asn Pro Ile Ser Leu Leu Cys Gly Ala Ile Ile Ile Trp Arg Phe
 100 105 110
 Ala Gly Asn Phe Glu Arg Thr Val Gly Thr Val Arg His Cys Phe Phe
 115 120 125
 Thr Val Ile Phe Ala Ile Phe Ser Ala Ile Ile Phe Leu Ser Phe Glu

673

130	135	140
Ala Val Ser Ser Leu Ser Lys Leu Gly Glu Val Glu Asp Ala Arg Gly		
145	150	155 160
Phe Thr Pro Val Ala Phe Ala Met Leu Gly Val Thr Thr Val Arg Ser		
	165	170 175
Arg Met Arg Arg Ala Leu Val Phe Gly Met Val Val Pro Ser Val Leu		
	180	185 190
Val Pro Trp Leu Leu Leu Gly Ala Ser Trp Leu Ile Pro Gln Thr Ser		
	195	200 205
Phe Leu Ser Asn Val Cys Gly Leu Ser Ile Gly Leu Ala Tyr Gly Cys		
	210	215 220
Thr Tyr Cys Tyr Ser Ile Asp Leu Ser Glu Arg Val Ala Leu Lys Leu		
	225	230 235 240
Asp Gln Thr Phe Pro Phe Ser Leu Met Arg Arg Ile Ser Val Phe Lys		
	245	250 255
Tyr Val Ser Gly Ser Ser Ala Glu Arg Arg Ala Ala Gln Ser Arg Lys		
	260	265 270
Leu Asn Pro Val Pro Gly Ser Tyr Pro Thr Gln Ser Cys His Pro His		
	275	280 285
Leu Ser Pro Ser His Pro Val Ser Gln Thr Gln His Ala Ser Gly Gln		
	290	295 300
Lys Leu Ala Ser Trp Pro Ser Cys Thr Pro Gly His Met Pro Thr Leu		
	305	310 315 320
Pro Pro Tyr Gln Pro Ala Ser Gly Leu Cys Tyr Val Gln Asn His Phe		
	325	330 335
Gly Pro Asn Pro Thr Ser Ser Ser Val Tyr Pro Ala Ser Ala Gly Thr		
	340	345 350
Ser Leu Gly Ile Gln Pro Pro Thr Pro Val Asn Ser Pro Gly Thr Val		
	355	360 365
Tyr Ser Gly Ala Leu Gly Thr Pro Gly Ala Ala Gly Ser Lys Glu Ser		
	370	375 380
Ser Arg Val Pro Met Pro		
	385	390

674

<210> 662

<211> 248

<212> PRT

<213> Homo sapiens

<400> 662

Glu Leu Tyr Cys Gly Val Leu Pro Arg Ser Pro Trp Phe Leu Ser Glu
 1 5 10 15
 Arg Arg Arg Gln Met Ala Asp Phe Asp Thr Tyr Asp Asp Arg Ala Tyr
 20 25 30
 Ser Ser Phe Gly Gly Gly Arg Gly Ser Arg Gly Ser Ala Gly Gly His
 35 40 45
 Gly Ser Arg Ser Gln Lys Glu Leu Pro Thr Glu Pro Pro Tyr Thr Ala
 50 55 60
 Tyr Val Gly Asn Leu Pro Phe Asn Thr Val Gln Gly Asp Ile Asp Ala
 65 70 75 80
 Ile Phe Lys Asp Leu Ser Ile Arg Ser Val Arg Leu Val Arg Asp Lys
 85 90 95
 Asp Thr Asp Lys Phe Lys Gly Phe Cys Tyr Val Glu Phe Asp Glu Val
 100 105 110
 Asp Ser Leu Lys Glu Ala Leu Thr Tyr Asp Gly Ala Leu Leu Gly Asp
 115 120 125
 Arg Ser Leu Arg Val Asp Ile Ala Glu Gly Arg Lys Gln Asp Lys Gly
 130 135 140
 Gly Phe Gly Phe Arg Lys Gly Gly Pro Asp Asp Arg Gly Phe Arg Asp
 145 150 155 160
 Asp Phe Leu Gly Gly Arg Gly Gly Ser Arg Pro Gly Asp Arg Arg Thr
 165 170 175
 Gly Pro Pro Met Gly Ser Arg Phe Arg Asp Gly Pro Pro Leu Arg Gly
 180 185 190
 Ser Asn Met Asp Phe Arg Glu Pro Thr Glu Glu Glu Arg Ala Gln Arg
 195 200 205
 Pro Arg Leu Gln Leu Lys Pro Arg Thr Val Ala Thr Pro Leu Asn Gln
 210 215 220
 Val Ala Asn Pro Asn Ser Ala Ile Phe Gly Gly Ala Arg Pro Arg Glu
 225 230 235 240

675

Glu Val Val Gln Lys Glu Gln Glu
245

<210> 663

<211> 616

<212> PRT

<213> Homo sapiens

<400> 663

Lys Glu Glu Glu Ile Val Asp Trp Trp Ser Lys Phe Tyr Ala Ser Ser
1 5 10 15

Gly Glu His Glu Lys Cys Gly Gln Tyr Ile Gln Lys Gly Tyr Ser Lys
20 25 30

Leu Lys Ile Tyr Asn Cys Glu Leu Glu Asn Val Ala Glu Phe Glu Gly
35 40 45

Leu Thr Asp Phe Ser Asp Thr Phe Lys Leu Tyr Arg Gly Lys Ser Asp
50 55 60

Glu Asn Glu Asp Pro Ser Val Val Gly Glu Phe Lys Gly Ser Phe Arg
65 70 75 80

Ile Tyr Pro Leu Pro Asp Asp Pro Ser Val Pro Ala Pro Pro Arg Gln
85 90 95

Phe Arg Glu Leu Pro Asp Ser Val Pro Gln Glu Cys Thr Val Arg Ile
100 105 110

Tyr Ile Val Arg Gly Leu Glu Leu Gln Pro Gln Asp Asn Asn Gly Leu
115 120 125

Cys Asp Pro Tyr Ile Lys Ile Thr Leu Gly Lys Lys Val Ile Glu Asp
130 135 140

Arg Asp His Tyr Ile Pro Asn Thr Leu Asn Pro Val Phe Gly Arg Met
145 150 155 160

Tyr Glu Leu Ser Cys Tyr Leu Pro Gln Glu Lys Asp Leu Lys Ile Ser
165 170 175

Val Tyr Asp Tyr Asp Thr Phe Thr Arg Asp Glu Lys Val Gly Glu Thr
180 185 190

Ile Ile Asp Leu Glu Asn Arg Phe Leu Ser Arg Phe Gly Ser His Cys
195 200 205

676

Gly	Ile	Pro	Glu	Glu	Tyr	Cys	Val	Ser	Gly	Val	Asn	Thr	Trp	Arg	Asp	210	215	220	
Gln	Leu	Arg	Pro	Thr	Gln	Leu	Leu	Gln	Asn	Val	Ala	Arg	Phe	Lys	Gly	225	230	235	240
Phe	Pro	Gln	Pro	Ile	Leu	Ser	Glu	Asp	Gly	Ser	Arg	Ile	Arg	Tyr	Gly	245	250	255	
Gly	Arg	Asp	Tyr	Ser	Leu	Asp	Glu	Phe	Glu	Ala	Asn	Lys	Ile	Leu	His	260	265	270	
Gln	His	Leu	Gly	Ala	Pro	Glu	Glu	Arg	Leu	Ala	Leu	His	Ile	Leu	Arg	275	280	285	
Thr	Gln	Gly	Leu	Val	Pro	Glu	His	Val	Glu	Thr	Arg	Thr	Leu	His	Ser	290	295	300	
Thr	Phe	Gln	Pro	Asn	Ile	Ser	Gln	Gly	Lys	Leu	Gln	Met	Trp	Val	Asp	305	310	315	320
Val	Phe	Pro	Lys	Ser	Leu	Gly	Pro	Pro	Gly	Pro	Pro	Phe	Asn	Ile	Thr	325	330	335	
Pro	Arg	Lys	Ala	Lys	Lys	Tyr	Tyr	Leu	Arg	Val	Ile	Ile	Trp	Asn	Thr	340	345	350	
Lys	Asp	Val	Ile	Leu	Asp	Glu	Lys	Ser	Ile	Thr	Gly	Glu	Glu	Met	Ser	355	360	365	
Asp	Ile	Tyr	Val	Lys	Gly	Trp	Ile	Pro	Gly	Asn	Glu	Glu	Asn	Lys	Gln	370	375	380	
Lys	Thr	Asp	Val	His	Tyr	Arg	Ser	Leu	Asp	Gly	Glu	Gly	Asn	Phe	Asn	385	390	395	400
Trp	Arg	Phe	Val	Phe	Pro	Phe	Asp	Tyr	Leu	Pro	Ala	Glu	Gln	Leu	Cys	405	410	415	
Ile	Val	Ala	Lys	Lys	Glu	His	Phe	Trp	Ser	Ile	Asp	Gln	Thr	Glu	Phe	420	425	430	
Arg	Ile	Pro	Pro	Arg	Leu	Ile	Ile	Gln	Ile	Trp	Asp	Asn	Asp	Lys	Phe	435	440	445	
Ser	Leu	Asp	Asp	Tyr	Leu	Gly	Phe	Leu	Glu	Leu	Asp	Leu	Arg	His	Thr	450	455	460	
Ile	Ile	Pro	Ala	Lys	Ser	Pro	Glu	Lys	Cys	Arg	Leu	Asp	Met	Ile	Pro	465	470	475	480

677

Asp Leu Lys Ala Met Asn Pro Leu Lys Ala Lys Thr Ala Ser Leu Phe
 485 490 495
 Glu Gln Lys Ser Met Lys Gly Trp Trp Pro Cys Tyr Ala Glu Lys Asp
 500 505 510
 Gly Ala Arg Val Met Ala Gly Lys Val Glu Met Thr Leu Glu Ile Leu
 515 520 525
 Asn Glu Lys Glu Ala Asp Glu Arg Pro Ala Gly Lys Gly Arg Asp Glu
 530 535 540
 Pro Asn Met Asn Pro Lys Leu Asp Leu Pro Asn Arg Pro Glu Thr Ser
 545 550 555 560
 Phe Leu Trp Phe Thr Asn Pro Cys Lys Thr Met Lys Phe Ile Val Trp
 565 570 575
 Arg Arg Phe Lys Trp Val Ile Ile Gly Leu Leu Phe Leu Leu Ile Leu
 580 585 590
 Leu Leu Phe Val Ala Val Leu Leu Tyr Ser Leu Pro Asn Tyr Leu Ser
 595 600 605
 Met Lys Ile Val Lys Pro Asn Val
 610 615

<210> 664

<211> 136

<212> PRT

<213> Homo sapiens

<400> 664

Ala Arg Leu Phe Ser Gly Ala Ser Met Ser Met Ala Asp Arg His Gly
 1 5 10 15
 Gln Gly Ala Val Phe Thr Ile Gly Leu Met Cys Ser Gln Leu Phe Ser
 20 25 30
 Cys Trp Phe His Leu Asn Asn Gln Met Leu Val Leu Arg Pro Ser Met
 35 40 45
 Ile Asp Ile Ile Ile His Phe Asp Pro Ser Cys Pro Ser Leu Ser Leu
 50 55 60
 Ser Ser Pro Leu Cys Gly Phe Phe Leu Glu Thr Glu Arg Asn Pro Arg
 65 70 75 80
 Cys Trp His Gln Ala Tyr Ser Val Trp Pro Phe Gly Trp Thr Cys Tyr

678

85 90 95
 Leu Lys Pro Ser Ala Gln Asn Ile Leu Glu Ser Pro His Phe Ser Gly
 100 105 110
 Leu Leu Lys Leu Tyr Leu Cys Ile Ile Ala Arg Val Val His Arg Gln
 115 120 125
 Arg Arg Ile Arg Leu Phe Ser Phe
 130 135

<210> 665
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 665
 Val Cys Pro His Pro Ala Met Ala Arg Leu Leu Gln Ala Ser Cys Leu
 1 5 10 15
 Leu Ser Leu Leu Leu Ala Gly Phe Val Ser Gln Ser Arg Gly Gln Glu
 20 25 30
 Lys Ser Lys Met Asp Cys His Gly Gly Ile Ser Gly Thr Ile Tyr Glu
 35 40 45
 Tyr Gly Ala Leu Thr Ile Asp Gly Glu Glu Tyr Ile Pro Phe Lys Gln
 50 55 60
 Tyr Ala Gly Lys Tyr Val Leu Phe Val Asn Val Ala Ser Tyr
 65 70 75

<210> 666
 <211> 313
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 666
 Ala Ala Met Ser Asn Pro Ser Ala Pro Pro Pro Tyr Glu Asp Arg Asn
 1 5 10 15
 Pro Leu Tyr Pro Gly Pro Xaa Pro Pro Gly Gly Tyr Gly Gln Pro Ser

679

	20		25		30										
Val	Leu	Pro	Gly	Gly	Tyr	Pro	Ala	Tyr	Pro	Gly	Tyr	Pro	Gln	Pro	Gly
	35						40					45			
Tyr	Gly	His	Pro	Ala	Gly	Tyr	Pro	Gln	Pro	Met	Pro	Pro	Thr	His	Pro
	50					55					60				
Met	Pro	Met	Asn	Tyr	Gly	Pro	Gly	His	Gly	Tyr	Asp	Gly	Glu	Glu	Arg
	65				70					75					80
Ala	Val	Ser	Asp	Ser	Phe	Gly	Pro	Gly	Glu	Trp	Asp	Asp	Arg	Lys	Val
				85					90					95	
Arg	His	Thr	Phe	Ile	Arg	Lys	Val	Tyr	Ser	Ile	Ile	Ser	Val	Gln	Leu
			100					105					110		
Leu	Ile	Thr	Val	Ala	Ile	Ile	Ala	Ile	Phe	Thr	Phe	Val	Glu	Pro	Val
		115					120					125			
Ser	Ala	Phe	Val	Arg	Arg	Asn	Val	Ala	Val	Tyr	Tyr	Val	Ser	Tyr	Ala
	130					135					140				
Val	Phe	Val	Val	Thr	Tyr	Leu	Ile	Leu	Ala	Cys	Cys	Gln	Gly	Pro	Arg
	145				150				155						160
Arg	Arg	Phe	Pro	Trp	Asn	Ile	Ile	Leu	Leu	Thr	Leu	Phe	Thr	Phe	Ala
				165				170						175	
Met	Gly	Phe	Met	Thr	Gly	Thr	Ile	Ser	Ser	Met	Tyr	Gln	Thr	Lys	Ala
		180						185					190		
Val	Ile	Ile	Ala	Met	Ile	Ile	Thr	Ala	Val	Val	Ser	Ile	Ser	Val	Thr
	195						200					205			
Ile	Phe	Cys	Phe	Gln	Thr	Lys	Val	Asp	Phe	Thr	Ser	Cys	Thr	Gly	Leu
	210					215					220				
Phe	Cys	Val	Leu	Gly	Ile	Val	Leu	Leu	Val	Thr	Gly	Ile	Val	Thr	Ser
	225				230					235				240	
Ile	Val	Leu	Tyr	Phe	Gln	Tyr	Val	Tyr	Trp	Leu	His	Met	Leu	Tyr	Ala
				245				250						255	
Ala	Leu	Gly	Ala	Ile	Cys	Phe	Thr	Leu	Phe	Leu	Ala	Tyr	Asp	Thr	Gln
		260						265					270		
Leu	Val	Leu	Gly	Asn	Arg	Lys	His	Thr	Ile	Ser	Pro	Glu	Asp	Tyr	Ile
	275						280					285			
Thr	Gly	Ala	Leu	Gln	Ile	Tyr	Thr	Asp	Ile	Ile	Tyr	Ile	Phe	Thr	Phe

680

290 295 300
 Val Leu Gln Leu Met Gly Asp Arg Asn
 305 310

 <210> 667
 <211> 487
 <212> PRT
 <213> Homo sapiens

 <400> 667
 Pro Arg Gly Cys Trp Ser Ser Cys Leu Asp Ala Met Phe Arg Leu Asn
 1 5 10 15

 Ser Leu Ser Ala Leu Ala Glu Leu Ala Val Gly Ser Arg Trp Tyr His
 20 25 30

 Gly Gly Ser Gln Pro Ile Gln Ile Arg Arg Arg Leu Met Met Val Ala
 35 40 45

 Phe Leu Gly Ala Ser Ala Val Thr Ala Ser Thr Gly Leu Leu Trp Lys
 50 55 60

 Arg Ala His Ala Glu Ser Pro Pro Cys Val Asp Asn Leu Lys Ser Asp
 65 70 75 80

 Ile Gly Asp Lys Gly Lys Asn Lys Asp Glu Gly Asp Val Cys Asn His
 85 90 95

 Glu Lys Lys Thr Ala Asp Leu Ala Pro His Pro Glu Glu Lys Lys Lys
 100 105 110

 Lys Arg Ser Gly Phe Arg Asp Arg Lys Val Met Glu Tyr Glu Asn Arg
 115 120 125

 Ile Arg Ala Tyr Ser Thr Pro Asp Lys Ile Phe Arg Tyr Phe Ala Thr
 130 135 140

 Leu Lys Val Ile Ser Glu Pro Gly Glu Ala Glu Val Phe Met Thr Pro
 145 150 155 160

 Glu Asp Phe Val Arg Ser Ile Thr Pro Asn Glu Lys Gln Pro Glu His
 165 170 175

 Leu Gly Leu Asp Gln Tyr Ile Ile Lys Arg Phe Asp Gly Lys Lys Ile
 180 185 190

 Ser Gln Glu Arg Glu Lys Phe Ala Asp Glu Gly Ser Ile Phe Tyr Thr
 195 200 205

681

Leu Gly Glu Cys Gly Leu Ile Ser Phe Ser Asp Tyr Ile Phe Leu Thr
 210 215 220
 Thr Val Leu Ser Thr Pro Gln Arg Asn Phe Glu Ile Ala Phe Lys Met
 225 230 235 240
 Phe Asp Leu Asn Gly Asp Gly Glu Val Asp Met Glu Glu Phe Glu Gln
 245 250 255
 Val Gln Ser Ile Ile Arg Ser Gln Thr Ser Met Gly Met Arg His Arg
 260 265 270
 Asp Arg Pro Thr Thr Gly Asn Thr Leu Lys Ser Gly Leu Cys Ser Ala
 275 280 285
 Leu Thr Thr Tyr Phe Phe Gly Ala Asp Leu Lys Gly Lys Leu Thr Ile
 290 295 300
 Lys Asn Phe Leu Glu Phe Gln Arg Lys Leu Gln His Asp Val Leu Lys
 305 310 315 320
 Leu Glu Phe Glu Arg His Asp Pro Val Asp Gly Arg Ile Thr Glu Arg
 325 330 335
 Gln Phe Gly Gly Met Leu Leu Ala Tyr Ser Gly Val Gln Ser Lys Lys
 340 345 350
 Leu Thr Ala Met Gln Arg Gln Leu Lys Lys His Phe Lys Glu Gly Lys
 355 360 365
 Gly Leu Thr Phe Gln Glu Val Glu Asn Phe Phe Thr Phe Leu Lys Asn
 370 375 380
 Ile Asn Asp Val Asp Thr Ala Leu Ser Phe Tyr His Met Ala Gly Ala
 385 390 395 400
 Ser Leu Asp Lys Val Thr Met Gln Gln Val Ala Arg Thr Val Ala Lys
 405 410 415
 Val Glu Leu Ser Asp His Val Cys Asp Val Val Phe Ala Leu Phe Asp
 420 425 430
 Cys Asp Gly Asn Gly Glu Leu Ser Asn Lys Glu Phe Val Ser Ile Met
 435 440 445
 Lys Gln Arg Leu Met Arg Gly Leu Glu Lys Pro Lys Asp Met Gly Phe
 450 455 460
 Thr Arg Leu Met Gln Ala Met Trp Lys Cys Ala Gln Glu Thr Ala Trp
 465 470 475 480

682

Asp Phe Ala Leu Pro Lys Gln
485

<210> 668
<211> 106
<212> PRT
<213> Homo sapiens

<400> 668
Gly Gly Val Gly Ala Glu Pro Asp Trp Ser Gly Gln Arg His Ala Gly
1 5 10 15
Ala Val Pro Arg Ala Ser Pro Ala Val Ala Val Ala Val Ala Gly Pro
20 25 30
Trp Gly Glu Asp Gly Phe Leu Arg Gly Arg Gly Val Arg Gln Pro Ala
35 40 45
Ala Gln Pro Leu Ser Ser Pro Gln Asp Asp His Gly Arg Ala Ala Arg
50 55 60
His Leu Arg Gln His Ala Gly Arg Val Ala Leu Leu Ala Cys Arg Ser
65 70 75 80
Leu Ser Leu Arg Gly Arg Gln Gln Ser Gln Glu Ala Gly Met Lys Val
85 90 95
Ala Leu Ser Pro Pro Gln Gly Ser Arg Thr
100 105

<210> 669
<211> 105
<212> PRT
<213> Homo sapiens

<400> 669
Phe Gly Thr Ser Arg Arg Glu Thr Ser Val Val Pro Cys Arg Val Ala
1 5 10 15
Ser Val Leu Arg Arg Pro Ser Pro Ser Phe Ala Ile Ala Arg His Arg
20 25 30
Thr Pro Ser Leu Glu Ile Cys Arg His Leu Asp Phe Ser His Ala Val
35 40 45
Cys Gln Val Ser Ala Ala Thr Arg Arg Gln Gly Ala Gly Pro Cys Gly

683

```

      50              55              60
Leu Cys Cys Thr Ser Asp Gly Phe Ala Pro Ala Ser Ala Leu Ser Leu
 65              70              75              80

Leu Gln His Ser Asp Leu His Pro Leu Arg Gly Phe His Cys Pro Arg
      85              90              95

Gly Glu Asn Ala Pro Gly Ser Val Thr
      100              105

<210> 670
<211> 285
<212> PRT
<213> Homo sapiens

<400> 670
Thr Gly Trp Ser His Arg Gly Lys Lys Met Ser Pro Arg Thr Pro Gly
  1              5              10              15

Phe Thr Pro Ser Pro Gln Arg Cys Leu His His Arg Cys Ser Thr Pro
      20              25              30

Ala Ala Ala Ala Ala Ser Ala Glu Cys Gly Pro Ser Gly Ala Thr Leu
      35              40              45

Ile Arg Ile Pro Leu His Arg Val Gln Pro Gly Arg Arg Ile Leu Asn
      50              55              60

Leu Leu Arg Gly Trp Arg Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala
      65              70              75              80

Pro Ser Pro Glu Asp Lys Pro Ile Phe Val Pro Leu Ser Asn Tyr Lys
      85              90              95

Gly Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Thr Pro Ser Ser
      100              105              110

Gln Trp Asp Gln Phe Ala Ile Gln Tyr Gly Thr Gly Arg Val His Gly
      115              120              125

Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile Lys Gly Ala Ser
      130              135              140

Val Ile Phe Gly Glu Ala Leu Trp Glu Pro Ser Leu Val Phe Ala Phe
      145              150              155              160

Ala His Phe Asp Gly Ile Leu Gly Leu Gly Phe Pro Ile Leu Ser Val
      165              170              175

```

684

Glu Gly Val Arg Pro Pro Met Asp Val Leu Val Glu Gln Gly Leu Leu
 180 185 190
 Asp Lys Pro Val Phe Ser Phe Tyr Leu Asn Arg Asp Pro Glu Glu Pro
 195 200 205
 Asp Gly Gly Glu Leu Val Leu Gly Gly Ser Asp Pro Ala His Tyr Ile
 210 215 220
 Pro Pro Leu Thr Phe Val Pro Val Thr Val Pro Ala Tyr Trp Gln Ile
 225 230 235 240
 His Met Glu Arg Val Lys Val Gly Pro Gly Leu Thr Leu Cys Ala Lys
 245 250 255
 Gly Cys Ala Ala Ile Leu Asp Thr Gly Thr Ser Leu Ile Thr Gly Pro
 260 265 270
 Thr Glu Glu Ile Arg Ala Leu His Ala Ala Ile Gly Gly
 275 280 285

<210> 671

<211> 157

<212> PRT

<213> Homo sapiens

<400> 671

Tyr Glu Glu Gln Ala Phe Gln Asp Leu Ser Gly Gly Asp Pro Pro Gly
 1 5 10 15
 Gly Ser Thr Ser His Leu Met Trp Lys Arg Met Lys Asn Leu Arg Gly
 20 25 30
 Gly Ser Cys Pro Leu Met Pro Asp Lys Pro Leu Ser Ala Asn Val Pro
 35 40 45
 Asn Asp Lys Phe Thr Gln Asn Pro Met Arg Gly Leu Gly His Pro Leu
 50 55 60
 Arg His Leu Pro Leu Pro Gln Pro Pro Ser Ala Ile Ser Pro Gly Glu
 65 70 75 80
 Asn Ser Lys Ser Arg Phe Pro Pro Gln Cys Tyr Ala Thr Gln Tyr Gln
 85 90 95
 Asp Tyr Ser Leu Ser Ser Ala His Lys Val Ser Gly Met Ala Ser Arg
 100 105 110

685

Leu Leu Gly Pro Ser Phe Glu Ser Tyr Leu Leu Pro Glu Leu Thr Arg
 115 120 125
 Tyr Asp Cys Glu Val Asn Val Pro Val Leu Gly Ser Ser Thr Leu Leu
 130 135 140
 Gln Gly Gly Asp Leu Leu Arg Ala Leu Asp Gln Ala Thr
 145 150 155

<210> 672
 <211> 307
 <212> PRT
 <213> Homo sapiens

<400> 672
 His Tyr Val Gly Gly Ala Val Arg Arg Gly Arg Gly Gly Gly Ser Gly
 1 5 10 15
 Asn Gly Gly Gly Arg Arg Leu Gly Gly Arg Ala Gly Gly Ser His Gly
 20 25 30
 Gly Gly Asp Thr Gly Gly Ser Gly Gly Gly Gly Lys Arg Ser Arg Asp
 35 40 45
 Arg Gly Arg Asn Arg Val Trp Arg His Arg Arg Gly Ser Ala Glu Ser
 50 55 60
 Glu Gly Ala Lys Ile Asp Ala Ser Lys Asn Glu Glu Asp Glu Gly His
 65 70 75 80
 Ser Asn Ser Ser Pro Arg His Ser Glu Ala Ala Thr Ala Gln Arg Glu
 85 90 95
 Glu Trp Lys Met Phe Ile Gly Gly Leu Ser Trp Asp Thr Thr Lys Lys
 100 105 110
 Asp Leu Lys Asp Tyr Phe Ser Lys Phe Gly Glu Val Val Asp Cys Thr
 115 120 125
 Leu Lys Leu Asp Pro Ile Thr Gly Arg Ser Arg Gly Phe Gly Phe Val
 130 135 140
 Leu Phe Lys Glu Ser Glu Ser Val Asp Lys Val Met Asp Gln Lys Glu
 145 150 155 160
 His Lys Leu Asn Gly Lys Val Ile Asp Pro Lys Arg Ala Lys Ala Met
 165 170 175
 Lys Thr Lys Glu Pro Val Lys Lys Ile Phe Val Gly Gly Leu Ser Pro

686

180 185 190
 Asp Thr Pro Glu Glu Lys Ile Arg Glu Tyr Phe Gly Gly Phe Gly Glu
 195 200 205
 Val Glu Ser Ile Glu Leu Pro Met Asp Asn Lys Thr Asn Lys Arg Arg
 210 215 220
 Gly Phe Cys Phe Ile Thr Phe Lys Glu Glu Glu Pro Val Lys Lys Ile
 225 230 235 240
 Met Glu Lys Lys Tyr His Asn Val Gly Leu Ser Lys Cys Glu Ile Lys
 245 250 255
 Val Ala Met Ser Lys Glu Gln Tyr Gln Gln Gln Gln Gln Trp Gly Ser
 260 265 270
 Arg Gly Gly Phe Ala Gly Arg Ala Arg Gly Arg Gly Gly Asp Gln Gln
 275 280 285
 Ser Gly Tyr Gly Lys Val Ser Arg Arg Gly Gly His Gln Asn Ser Tyr
 290 295 300
 Lys Pro Tyr
 305

<210> 673

<211> 248

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 673

Pro Leu Arg Xaa Val Leu Val Glu Ser Ile Pro Glu Gly Leu Asp Phe
 1 5 10 15
 Pro Asn Ala Ser Thr Gly Asn Pro Ser Thr Ser Gln Ala Trp Leu Gly
 20 25 30
 Leu Leu Ala Gly Ala His Ser Ser Leu Asp Ile Ala Ser Phe Tyr Trp
 35 40 45
 Thr Leu Thr Asn Asn Asp Thr His Thr Gln Glu Pro Ser Ala Gln Gln
 50 55 60

687

Gly Glu Glu Val Leu Arg Gln Leu Gln Thr Leu Ala Pro Lys Gly Val
 65 70 75 80
 Asn Val Arg Ile Ala Val Ser Lys Pro Ser Gly Pro Gln Pro Gln Ala
 85 90 95
 Asp Leu Gln Ala Leu Leu Gln Ser Gly Ala Gln Val Arg Met Val Asp
 100 105 110
 Met Gln Lys Leu Thr His Gly Val Leu His Thr Lys Phe Trp Val Val
 115 120 125
 Asp Gln Thr His Phe Tyr Leu Gly Ser Ala Asn Met Asp Trp Arg Ser
 130 135 140
 Leu Thr Gln Val Lys Glu Leu Gly Val Val Met Tyr Asn Cys Ser Cys
 145 150 155 160
 Leu Ala Arg Asp Leu Thr Lys Ile Phe Glu Ala Tyr Trp Phe Leu Gly
 165 170 175
 Gln Ala Gly Ser Ser Ile Pro Ser Thr Trp Pro Arg Phe Tyr Asp Thr
 180 185 190
 Arg Tyr Asn Gln Glu Thr Pro Met Glu Ile Cys Leu Asn Gly Thr Pro
 195 200 205
 Ala Leu Ala Tyr Leu Ala Ser Ala Pro Pro Pro Leu Cys Pro Ser Gly
 210 215 220
 Arg Thr Pro Asp Leu Lys Ala Leu Leu Asn Val Val Gly Gln Cys Pro
 225 230 235 240
 Glu Phe His Leu Arg Arg Cys Ser
 245

<210> 674

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (290)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (291)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 674

Ala	Leu	Asp	Phe	Gly	Asp	Ser	Cys	Gln	Trp	Pro	Arg	Pro	Gln	Asp	Thr
1				5					10					15	

Met	Lys	Gln	Leu	Pro	Val	Leu	Glu	Pro	Gly	Asp	Lys	Pro	Arg	Lys	Ala
		20						25					30		

Thr	Trp	Tyr	Thr	Leu	Thr	Val	Pro	Gly	Asp	Ser	Pro	Cys	Ala	Arg	Val
		35					40					45			

Gly	His	Ser	Cys	Ser	Tyr	Leu	Pro	Pro	Val	Gly	Asn	Ala	Lys	Arg	Gly
	50					55					60				

Lys	Val	Phe	Ile	Val	Gly	Gly	Ala	Asn	Pro	Asn	Arg	Ser	Phe	Ser	Asp
	65				70					75					80

Val	His	Thr	Met	Asp	Leu	Gly	Lys	Xaa	Gln	Trp	Asp	Leu	Asp	Thr	Cys
				85					90					95	

Lys	Gly	Leu	Leu	Pro	Arg	Tyr	Glu	His	Ala	Ser	Phe	Ile	Pro	Ser	Cys
		100						105					110		

Thr	Pro	Asp	Arg	Ile	Trp	Val	Phe	Gly	Gly	Ala	Asn	Gln	Ser	Gly	Asn
		115				120						125			

Arg	Asn	Cys	Leu	Gln	Val	Leu	Asn	Pro	Glu	Thr	Arg	Thr	Trp	Thr	Xaa
	130					135						140			

Pro	Glu	Val	Thr	Ser	Pro	Pro	Pro	Ser	Pro	Arg	Thr	Phe	His	Thr	Ser
	145				150					155					160

Ser	Ala	Ala	Ile	Gly	Asn	Gln	Leu	Tyr	Val	Phe	Gly	Gly	Gly	Glu	Arg
			165						170					175	

689

Gly Ala Gln Pro Val Gln Asp Thr Lys Leu His Val Phe Asp Ala Asn
 180 185 190
 Thr Leu Thr Trp Ser Gln Pro Glu Thr Leu Gly Asn Pro Pro Ser Pro
 195 200 205
 Arg His Gly His Val Met Val Ala Ala Gly Thr Lys Leu Phe Ile His
 210 215 220
 Gly Gly Leu Ala Gly Asp Arg Phe Tyr Asp Asp Leu His Cys Ile Asp
 225 230 235 240
 Ile Ser Gly His Glu Met Ala Gly Ser Leu Asn Pro Thr Gly Gly Leu
 245 250 255
 Leu Pro Ala Gly Cys Ala Ala His Ser Ala Val Ala Met Gly Lys His
 260 265 270
 Val Tyr Ile Phe Gly Gly Ile Asp Ser Cys Arg Ala Leu Asp Thr Cys
 275 280 285
 Tyr Xaa Xaa His Thr Glu Glu Gln His Trp Thr Leu Leu Xaa Ile
 290 295 300

<210> 675
 <211> 361
 <212> PRT
 <213> Homo sapiens

<400> 675
 Leu Asp Lys Lys Lys Ser Asn Gln Met Cys Lys Asn Ser Gln Asp Ile
 1 5 10 15
 Ile Cys Ser Asn Ala Gly Thr Cys His Cys Gly Arg Cys Lys Cys Asp
 20 25 30
 Asn Ser Asp Gly Ser Gly Leu Val Tyr Gly Lys Phe Cys Glu Cys Asp
 35 40 45
 Asp Arg Glu Cys Ile Asp Asp Glu Thr Glu Glu Ile Cys Gly Gly His
 50 55 60
 Gly Lys Cys Tyr Cys Gly Asn Cys Tyr Cys Lys Ala Gly Trp His Gly
 65 70 75 80
 Asp Lys Cys Glu Phe Gln Cys Asp Ile Thr Pro Trp Glu Ser Lys Arg
 85 90 95
 Arg Cys Thr Ser Pro Asp Gly Lys Ile Cys Ser Asn Arg Gly Thr Cys

690

100	105	110
Val Cys Gly Glu Cys Thr Cys His Asp Val Asp Pro Thr Gly Asp Trp		
115	120	125
Gly Asp Ile His Gly Asp Thr Cys Glu Cys Asp Glu Arg Asp Cys Arg		
130	135	140
Ala Val Tyr Asp Arg Tyr Ser Asp Asp Phe Cys Ser Gly His Gly Gln		
145	150	155
Cys Asn Cys Gly Arg Cys Asp Cys Lys Ala Gly Trp Tyr Gly Lys Lys		
165	170	175
Cys Glu His Pro Gln Ser Cys Thr Leu Ser Ala Glu Glu Ser Ile Arg		
180	185	190
Lys Cys Gln Gly Ser Ser Asp Leu Pro Cys Ser Gly Arg Gly Lys Cys		
195	200	205
Glu Cys Gly Lys Cys Thr Cys Tyr Pro Pro Gly Asp Arg Arg Val Tyr		
210	215	220
Gly Lys Thr Cys Glu Cys Asp Asp Arg Arg Cys Glu Asp Leu Asp Gly		
225	230	235
Val Val Cys Gly Gly His Gly Thr Cys Ser Cys Gly Arg Cys Val Cys		
245	250	255
Glu Arg Gly Trp Phe Gly Lys Leu Cys Gln His Pro Arg Lys Cys Asn		
260	265	270
Met Thr Glu Glu Gln Ser Lys Asn Leu Cys Glu Ser Ala Asp Gly Ile		
275	280	285
Leu Cys Ser Gly Lys Gly Ser Cys His Cys Gly Lys Cys Ile Cys Ser		
290	295	300
Ala Glu Glu Trp Tyr Ile Ser Gly Glu Phe Cys Asp Cys Asp Asp Arg		
305	310	315
Asp Cys Asp Lys His Asp Gly Leu Ile Cys Thr Gly Asn Gly Ile Cys		
325	330	335
Ser Cys Gly Asn Cys Glu Cys Trp Asp Gly Trp Asn Gly Asn Ala Cys		
340	345	350
Glu Ile Trp Leu Gly Ser Glu Tyr Pro		
355	360	

691

<210> 676

<211> 154

<212> PRT

<213> Homo sapiens

<400> 676

Gly Arg Ser Leu Arg Asn Thr Leu Pro Ala Cys Ala Lys Arg Lys Gln
 1 5 10 15

Ala Pro Cys Phe Lys Lys Thr Arg Leu Thr Leu Val Cys Glu Ser Ala
 20 25 30

Pro Gly Pro Ile Thr Met Asp Leu Thr Gly Asp Leu Glu Ala Leu Lys
 35 40 45

Lys Glu Thr Ile Val Leu Lys Glu Gly Ser Glu Tyr Arg Val Lys Ile
 50 55 60

His Phe Lys Val Asn Arg Asp Ile Val Ser Gly Leu Lys Tyr Val Gln
 65 70 75 80

His Thr Tyr Arg Thr Gly Val Lys Val Asp Lys Ala Thr Phe Met Val
 85 90 95

Gly Ser Tyr Gly Pro Arg Pro Glu Glu Tyr Glu Phe Leu Thr Pro Val
 100 105 110

Glu Glu Ala Pro Lys Gly Met Leu Ala Arg Gly Thr Tyr His Asn Lys
 115 120 125

Ser Phe Phe Thr Asp Asp Asp Lys Gln Asp His Leu Ser Trp Glu Trp
 130 135 140

Asn Leu Ser Ile Lys Lys Glu Trp Thr Glu
 145 150

<210> 677

<211> 270

<212> PRT

<213> Homo sapiens

<400> 677

Glu Glu Ala Ala Thr Pro Ser Gly Gly Gly Arg Asn Arg Ser Ala Ser
 1 5 10 15

Ser Ser Trp Val Gly Thr Met Ala Gly Ile Thr Thr Ile Glu Ala Val
 20 25 30

692

Lys Arg Lys Ile Gln Val Leu Gln Gln Gln Ala Asp Asp Ala Glu Glu
 35 40 45
 Arg Ala Glu Arg Leu Gln Arg Glu Val Glu Gly Glu Arg Arg Ala Arg
 50 55 60
 Glu Gln Ala Glu Ala Glu Val Ala Ser Leu Asn Arg Arg Ile Gln Leu
 65 70 75 80
 Val Glu Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu
 85 90 95
 Gln Lys Leu Glu Glu Ala Glu Lys Ala Ala Asp Glu Ser Glu Arg Gly
 100 105 110
 Met Lys Val Ile Glu Asn Arg Ala Leu Lys Asp Glu Glu Lys Met Glu
 115 120 125
 Leu Gln Glu Ile Gln Leu Lys Glu Ala Lys His Ile Ala Glu Glu Ala
 130 135 140
 Asp Arg Lys Tyr Glu Glu Val Ala Arg Lys Leu Val Ile Ile Glu Gly
 145 150 155 160
 Asp Leu Glu Arg Thr Glu Glu Arg Ala Glu Leu Ala Glu Ser Arg Cys
 165 170 175
 Arg Glu Met Asp Glu Gln Ile Arg Leu Met Asp Gln Asn Leu Lys Cys
 180 185 190
 Leu Ser Ala Ala Glu Glu Lys Tyr Ser Gln Lys Glu Asp Lys Tyr Glu
 195 200 205
 Glu Glu Ile Lys Ile Leu Thr Asp Lys Leu Lys Glu Ala Glu Thr Arg
 210 215 220
 Ala Glu Phe Ala Glu Arg Ser Val Ala Lys Leu Glu Lys Thr Ile Asp
 225 230 235 240
 Asp Leu Glu Asp Lys Leu Lys Cys Thr Lys Glu Glu His Leu Cys Thr
 245 250 255
 Gln Arg Met Leu Asp Gln Thr Leu Leu Asp Leu Asn Glu Met
 260 265 270

<210> 678

<211> 712

<212> PRT

<213> Homo sapiens

693

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (389)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (394)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 678
Xaa Xaa Pro Leu Thr Arg Leu Asn Leu Pro Ala Cys Arg Met Gly Ala
1 5 10 15
Asp Trp Thr Thr Xaa Ser Leu Arg Ala Leu Ala Ala Xaa Ala Pro Ala
20 25 30
Leu Glu Arg Glu Ser Glu Gly Thr Thr Gly Val Leu Xaa Trp Val Leu
35 40 45
Thr Pro Ala Leu Leu His Glu Arg Leu Ser Ser Gly Cys Val Gln Gly
50 55 60
Ile Thr Glu Leu Phe Cys Pro Asn Pro Glu Ala Tyr Gln Gly Leu Pro
65 70 75 80

694

Thr Leu Pro Pro Ser Thr Leu Ser Val Ala Ala Ala Ala Ala Met Ala
 85 90 95

Gly Met Lys Thr Ala Ser Gly Asp Tyr Ile Asp Ser Ser Trp Glu Leu
 100 105 110

Arg Val Phe Val Gly Glu Glu Asp Pro Glu Ala Glu Ser Val Thr Leu
 115 120 125

Arg Val Thr Gly Glu Ser His Ile Gly Gly Val Leu Leu Lys Ile Val
 130 135 140

Glu Gln Ile Asn Arg Lys Gln Asp Trp Ser Asp His Ala Ile Trp Trp
 145 150 155 160

Glu Gln Lys Arg Gln Trp Leu Leu Gln Thr His Trp Thr Leu Asp Lys
 165 170 175

Tyr Gly Ile Leu Ala Asp Ala Arg Leu Phe Phe Gly Pro Gln His Arg
 180 185 190

Pro Val Ile Leu Arg Leu Pro Asn Arg Arg Ala Leu Arg Leu Arg Ala
 195 200 205

Ser Phe Ser Gln Pro Leu Phe Gln Ala Val Ala Ala Ile Cys Arg Leu
 210 215 220

Leu Ser Ile Arg His Pro Glu Glu Leu Ser Leu Leu Arg Ala Pro Glu
 225 230 235 240

Lys Lys Glu Lys Lys Lys Lys Glu Lys Glu Pro Glu Glu Glu Leu Tyr
 245 250 255

Asp Leu Ser Lys Val Val Leu Ala Gly Gly Val Ala Pro Ala Leu Phe
 260 265 270

Arg Gly Met Pro Ala His Phe Ser Asp Ser Ala Gln Thr Glu Ala Cys
 275 280 285

Tyr His Met Leu Ser Arg Pro Gln Pro Pro Pro Asp Pro Leu Leu Leu
 290 295 300

Gln Arg Leu Pro Arg Pro Ser Ser Leu Ser Asp Lys Thr Gln Leu His
 305 310 315 320

Ser Arg Trp Leu Asp Ser Ser Arg Cys Leu Met Gln Gln Gly Ile Lys
 325 330 335

Ala Gly Asp Ala Leu Trp Leu Arg Phe Lys Tyr Tyr Ser Phe Phe Asp
 340 345 350

695

Leu Asp Pro Lys Thr Asp Pro Val Arg Leu Thr Gln Leu Tyr Glu Gln
 355 360 365
 Ala Arg Trp Asp Leu Leu Leu Glu Glu Ile Asp Cys Thr Glu Glu Glu
 370 375 380
 Met Met Val Phe Xaa Ala Leu Gln Asp Xaa Leu Thr Thr Ile Pro Glu
 385 390 395 400
 Leu Lys Asp His Leu Arg Ile Phe Arg Pro Arg Lys Leu Thr Leu Lys
 405 410 415
 Gly Tyr Arg Gln His Trp Val Val Phe Lys Glu Thr Thr Leu Ser Tyr
 420 425 430
 Tyr Lys Ser Gln Asp Glu Ala Pro Gly Asp Pro Ile Gln Gln Leu Asn
 435 440 445
 Leu Lys Gly Cys Glu Val Val Pro Asp Val Asn Val Ser Gly Gln Lys
 450 455 460
 Phe Cys Ile Lys Leu Leu Val Pro Ser Pro Glu Gly Met Ser Glu Ile
 465 470 475 480
 Tyr Leu Arg Cys Gln Asp Glu Gln Gln Tyr Ala Arg Trp Met Ala Gly
 485 490 495
 Cys Arg Leu Ala Ser Lys Gly Arg Thr Met Ala Asp Ser Ser Tyr Thr
 500 505 510
 Ser Glu Val Gln Ala Ile Leu Ala Phe Leu Ser Leu Gln Arg Thr Gly
 515 520 525
 Ser Gly Gly Pro Gly Asn His Pro His Gly Pro Asp Ala Ser Ala Glu
 530 535 540
 Gly Leu Asn Pro Tyr Gly Leu Val Ala Pro Arg Phe Gln Arg Lys Phe
 545 550 555 560
 Lys Ala Lys Gln Leu Thr Pro Arg Ile Leu Glu Ala His Gln Asn Val
 565 570 575
 Ala Gln Leu Ser Leu Ala Glu Ala Gln Leu Arg Phe Ile Gln Ala Trp
 580 585 590
 Gln Ser Leu Pro Asp Phe Gly Ile Ser Tyr Val Met Val Arg Phe Lys
 595 600 605
 Gly Ser Arg Lys Asp Glu Ile Leu Gly Ile Ala Asn Asn Arg Leu Ile
 610 615 620

696

Arg Ile Asp Leu Ala Val Gly Asp Val Val Lys Thr Trp Arg Phe Ser
625 630 635 640

Asn Met Arg Gln Trp Asn Val Asn Trp Asp Ile Arg Gln Val Ala Ile
645 650 655

Glu Phe Asp Glu His Ile Asn Val Ala Phe Ser Cys Val Ser Ala Ser
660 665 670

Cys Arg Ile Val His Glu Tyr Ile Gly Gly Tyr Ile Phe Leu Ser Thr
675 680 685

Arg Glu Arg Ala Arg Gly Glu Glu Leu Asp Glu Asp Leu Phe Leu Gln
690 695 700

Leu Thr Gly Gly His Glu Ala Phe
705 710

<210> 679

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 679

Thr Val Lys Val Trp Ala Thr His Arg Gln Lys Phe Leu Phe Ser Leu
1 5 10 15

Ser Gln His Ile Asn Trp Val Arg Cys Ala Lys Phe Ser Pro Asp Gly
20 25 30

Arg Leu Ile Val Ser Ala Ser Asp Asp Lys Thr Val Lys Leu Trp Asp
35 40 45

Lys Ser Ser Arg Glu Cys Val His Ser Tyr Cys Glu His Gly Gly Phe
50 55 60

Val Thr Tyr Val Asp Phe His Pro Ser Gly Thr Cys Ile Ala Ala Ala
65 70 75 80

Gly Met Asp Asn Thr Val Lys Val Trp Asp Val Arg Thr His Arg Leu
85 90 95

Leu Gln His Tyr Gln Leu His Ser Ala Ala Val Asn Gly Leu Ser Phe

697

100	105	110
His Pro Ser Gly Asn Tyr Leu Ile Thr Ala Ser Ser Asp Ser Thr Leu		
115	120	125
Lys Ile Leu Asp Leu Met Glu Gly Pro Ala Ala Leu His Thr Pro Arg		
130	135	140
Gly Ile Arg Asp Gln Pro His Trp Pro Ser Ser Met Gly Asn Leu Pro		
145	150	155
Glu Val Asp Phe Pro Val Pro Pro Arg Gln Lys Gln Gly Val Leu Glu		
165	170	175
Ser Val Xaa		

<210> 680

<211> 271

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

698

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 680

Leu Ala Arg Thr Pro Leu Pro Ser Xaa Xaa Xaa Phe Xaa Asn Trp Pro
 1 5 10 15

Xaa Pro Ala Leu Cys Ser Cys Gly Leu Ile Arg Xaa Xaa Pro Ala Arg
 20 25 30

His Pro Arg Pro Ala Met Ala Ile Tyr Lys Gln Ser Gln His Met Thr
 35 40 45

Glu Val Val Arg Arg Cys Pro His His Glu Arg Cys Ser Asp Ser Asp
 50 55 60

Gly Leu Ala Pro Pro Gln His Leu Ile Arg Val Glu Gly Asn Leu Arg
 65 70 75 80

Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg His Ser Val Val Val
 85 90 95

Pro Tyr Glu Pro Pro Glu Val Gly Ser Asp Cys Thr Thr Ile His Tyr
 100 105 110

Asn Tyr Met Cys Asn Ser Ser Cys Met Gly Gly Met Asn Arg Arg Pro
 115 120 125

Ile Leu Thr Ile Ile Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly
 130 135 140

Arg Asn Ser Phe Glu Val Arg Val Cys Ala Cys Pro Gly Arg Asp Arg
 145 150 155 160

Arg Thr Glu Glu Glu Asn Leu Arg Lys Lys Gly Glu Pro His His Glu
 165 170 175

Leu Pro Pro Gly Ser Thr Lys Arg Ala Leu Pro Asn Asn Thr Ser Ser
 180 185 190

Ser Pro Gln Pro Lys Lys Lys Pro Leu Asp Gly Glu Tyr Phe Thr Leu
 195 200 205

Gln Ile Arg Gly Arg Glu Arg Phe Glu Met Phe Arg Glu Leu Asn Glu
 210 215 220

699

Ala Leu Glu Leu Lys Asp Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser
 225 230 235 240

Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser
 245 250 255

Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro Asp Ser Asp
 260 265 270

<210> 681
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 681
 Gly Gln Val Arg Cys Leu Thr Ser Val Ile Pro Thr Leu Trp Glu Ala
 1 5 10 15

Glu Met Gly Gly Leu Leu Glu Pro Arg Ser Ser Arg Pro Ala Trp Ala
 20 25 30

Thr Gln Arg Asp Pro Ile Ser
 35

<210> 682
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 682
 Pro Pro Phe Tyr Leu Arg Ser Ile Phe Ile His Cys Ile Gly Asn Cys
 1 5 10 15

Phe Met Leu Leu Gln Ser Ala Lys Ser Arg Ala Phe Ile Arg Pro Cys
 20 25 30

His Thr Gln Glu Ser Thr Tyr Leu Lys Lys Lys Gln Phe Pro Glu Leu
 35 40 45

Ser Thr Pro Ser Cys Arg Phe Gly Val Phe Leu Val Leu Thr Leu Lys
 50 55 60

Ser His Val Leu Ile Phe Phe Leu Pro Val Phe Val Cys Lys Met Ser
 65 70 75 80

Ser Ile Cys Tyr

700

<210> 683

<211> 59

<212> PRT

<213> Homo sapiens

<400> 683

Ala Phe Val Val Phe Ser Phe Asn Thr Cys Thr Ser Leu Leu Phe Glu
1 5 10 15

Lys Cys Tyr Ser Cys Gln Arg Ile Phe Met Asp Leu Lys Ile Ile Ser
20 25 30

Cys Glu Val Glu Cys Lys Cys Thr Val Ile His Ser Val Tyr Ile Lys
35 40 45

Ile Pro Gly Ile Phe Thr Phe Ala Thr Leu Ile
50 55

<210> 684

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 684

Arg Asn Ser Arg Val Asp Pro Arg Val Arg Gly Ser Gln Gln Leu Pro
1 5 10 15

Leu Leu Cys Pro Ala Pro Gly Thr Arg Leu Phe Pro Leu Gln Cys Leu
20 25 30

Arg Gly Gly Asp Gly Ser Thr Met Asp Pro Arg Leu Ser Thr Val Arg
35 40 45

Gln Thr Cys Cys Cys Phe Asn Val Arg Ile Ala Thr Thr Ala Leu Ala
50 55 60

Ile Tyr His Val Ile Met Ser Val Leu Leu Phe Ile Glu His Ser Val
65 70 75 80

Glu Val Ala His Gly Lys Ala Ser Cys Lys Leu Ser Gln Met Gly Tyr
85 90 95

701

```

Leu Arg Ile Ala Asp Leu Ile Ser Ser Phe Leu Leu Ile Thr Met Leu
      100                      105                      110

Phe Ile Ile Ser Leu Ser Leu Leu Ile Gly Val Val Lys Asn Arg Glu
      115                      120                      125

Lys Tyr Leu Leu Pro Phe Leu Ser Leu Gln Ile Met Asp Tyr Leu Leu
      130                      135                      140

Cys Leu Leu Thr Leu Leu Gly Ser Tyr Ile Glu Leu Pro Ala Tyr Leu
      145                      150                      155                      160

Lys Leu Ala Ser Arg Ser Arg Ala Ser Ser Ser Lys Phe Pro Leu Met
      165                      170                      175

Thr Leu Gln Leu Leu Asp Phe Cys Leu Ser Ile Leu Thr Leu Cys Ser
      180                      185                      190

Ser Tyr Met Glu Val Pro Thr Tyr Leu Asn Phe Lys Ser Met Asn His
      195                      200                      205

Met Asn Tyr Leu Pro Ser Gln Glu Asp Met Pro His Asn Gln Phe Ile
      210                      215                      220

Lys Met Met Ile Ile Phe Ser Ile Ala Phe Ile Thr Val Leu Ile Phe
      225                      230                      235                      240

Lys Val Tyr Met Phe Lys Cys Val Trp Arg Cys Tyr Arg Leu Ile Lys
      245                      250                      255

Cys Met Asn Ser Val Glu Glu Lys Xaa Asn Ser Lys Met Leu Gln Lys
      260                      265                      270

Val Val Leu Pro Ser Tyr Glu Glu Ala Leu Ser Leu Pro Ser Lys Thr
      275                      280                      285

Pro Glu Gly Gly Pro Ala Pro Pro Pro Tyr Ser Glu Val
      290                      295                      300

```

<210> 685

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

702

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 685

Glu Gln Cys Trp Trp Gly Gln Ser Leu Gln Arg Leu Gly Trp Gln Pro
 1 5 10 15

Thr Asn Thr Ser Gly Thr Thr Arg Arg Cys Ala Gly Pro Ser Asn Ser
 20 25 30

Met Gln Leu Ala Ser Arg Ser Ala Gly Glu Leu Val Glu Ser Leu Lys
 35 40 45

Leu Met Ser Leu Cys Leu Gly Ser Gln Leu His Gly Ser Thr Lys Tyr
 50 55 60

Ile Ile Asp Pro Gln Asn Gly Leu Ser Phe Ser Ser Val Lys Val Gln
 65 70 75 80

Glu Lys Xaa Thr Trp Lys Met Cys Ile Ser Ser Thr Gly Xaa Ala Gly
 85 90 95

Gln Val Pro Gln Trp Ala Ala
 100

<210> 686

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 686

Ala Arg Ala Trp Lys His Ile Asp Tyr Phe Asn Asn Gln Ile Ile Val
 1 5 10 15

Asp Leu Val Glu Gln Gln His Lys Gly Ile Ile Ala Ile Leu Asp Asp
 20 25 30

Ala Cys Met Asn Val Gly Lys Val Thr Asp Glu Met Phe Leu Glu Ala
 35 40 45

Leu Asn Ser Lys Leu Gly Lys His Ala His Phe Ser Ser Arg Lys Leu

703

50	55	60
Cys Ala Ser Asp Lys Ile Leu Glu Phe Asp Arg Asn Phe Arg Ile Arg		
65	70	75 80
His Tyr Ala Gly Asp Val Val Tyr Ser Val Ile Gly Phe Ile Asp Lys		
	85	90 95
Asn Lys Asp Thr Leu Phe Gln Asp Phe Lys Arg Leu Met Tyr Asn Ser		
	100	105 110
Ser Asn Pro Val Leu Lys Asn Met Trp Pro Glu Gly Lys Leu Ser Ile		
	115	120 125
Thr Glu Val Thr Lys Arg Pro Leu Thr Ala Ala Thr Leu Phe Lys Asn		
	130	135 140
Xaa Met Ile Ala Leu Val Asp Asn Leu Ala Ser Lys Glu Pro Tyr Tyr		
	145	150 155 160
Val Arg Cys Ile Lys Pro Asn Asp Lys Lys Ser Pro Gln Ile Phe Asp		
	165	170 175
Asp Glu Arg Cys Arg His Gln Val Glu Tyr Leu Gly Leu Leu Glu Asn		
	180	185 190
Val Arg Val Arg Arg Ala Gly Phe Ala Phe Arg Gln Thr Tyr Glu Lys		
	195	200 205
Phe Leu His Arg Tyr Lys Met Ile Ser Gly Ile Ala Pro Gly Pro Thr		
	210	215 220
Met Asp Leu Pro Phe Arg Gln Arg Gly Cys Gln Glu Thr Asn Leu Asn		
	225	230 235 240
Gly Val Val Phe Arg		
	245	

<210> 687

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

704

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 687

Ser	Tyr	Tyr	Asn	Thr	Leu	Ile	Pro	Tyr	Cys	Gln	Cys	Leu	Phe	Ala	Ala
1				5				10					15		

Phe	Pro	His	Phe	Phe	Tyr	Ile	Ile	Xaa	Thr	Val	Leu	Ile	Phe	Phe	Cys
			20					25					30		

His	Trp	Asp	Cys	Leu	Ser	Asp	Thr	Leu	His	Xaa	Ser	Leu	Leu	Leu	Ala
		35					40					45			

Ile	Trp	Lys	Gly	Ser	Lys	Gly	Tyr	Ser	Gly	Gly	Ala	Xaa	Arg	Pro	Gly
	50					55					60				

Val	Trp	Xaa	Ile	Leu	Gln	Asn	Arg	Asn	Lys	Thr	Pro	Gln	Ser	Leu	Pro
65					70					75				80	

Leu	Met	Pro	Ser	Ile	Gln	Leu	Phe	Cys	Cys	Ile	Ser	Cys	Leu	Leu	Phe
				85					90					95	

Lys	Lys	Leu	Pro
			100

<210> 688

<211> 60

<212> PRT

<213> Homo sapiens

<400> 688

Asp	Leu	Lys	Ile	Phe	Pro	Phe	Gln	Cys	Cys	Phe	Asn	Cys	Ile	Ser	Tyr
1				5					10					15	

Leu	Val	Phe	Leu	Ile	Asp	Ser	Thr	Val	Ile	Asn	His	Asn	Thr	Arg	Gln
			20					25					30		

Asn	Cys	Leu	Leu	Phe	Gln	Thr	Arg	Ala	Ile	Tyr	Met	Ser	Val	Tyr	Met
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

705

```

          35              40              45
Gly Pro Thr Ala Ser Leu Arg Lys Cys Ile Ile Cys
  50              55              60

<210> 689
<211> 403
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 689
Ser Leu Ala Met Arg Asn Lys Lys Ile Leu Lys Glu Asp Glu Leu Leu
  1              5              10              15

Ser Glu Thr Gln Gln Ala Ala Phe His Gln Ile Ala Met Glu Pro Phe
          20              25              30

Glu Ile Asn Val Pro Lys Pro Lys Arg Arg Asn Gly Val Asn Phe Ser
          35              40              45

Leu Ala Val Val Val Ile Tyr Leu Ile Leu Leu Thr Ala Gly Ala Gly
  50              55              60

Leu Leu Val Val Gln Val Leu Asn Leu Gln Ala Arg Leu Arg Val Leu
  65              70              75              80

Glu Met Tyr Phe Leu Asn Asp Thr Leu Ala Ala Glu Asp Ser Pro Ser
          85              90              95

Phe Ser Leu Leu Gln Ser Ala His Pro Gly Glu His Leu Ala Gln Gly
          100              105              110

Ala Ser Arg Leu Gln Val Leu Gln Ala Gln Leu Thr Trp Val Arg Val
          115              120              125

Ser His Glu His Leu Leu Gln Arg Val Asp Asn Phe Thr Gln Asn Pro
          130              135              140

Gly Met Phe Arg Ile Lys Gly Glu Gln Gly Ala Pro Gly Leu Gln Gly
          145              150              155              160

His Lys Gly Ala Met Gly Met Pro Gly Ala Pro Gly Pro Pro Gly Pro
          165              170              175

```

Pro Ala Glu Lys Gly Ala Xaa Gly Ala Met Gly Arg Asp Gly Ala Thr
 180 185 190
 Gly Pro Ser Gly Pro Gln Gly Pro Pro Gly Val Lys Gly Glu Ala Gly
 195 200 205
 Leu Gln Gly Pro Gln Gly Ala Pro Gly Lys Gln Gly Ala Thr Gly Thr
 210 215 220
 Pro Gly Pro Gln Gly Glu Lys Gly Ser Lys Gly Asp Gly Gly Leu Ile
 225 230 235 240
 Gly Pro Lys Gly Glu Thr Gly Thr Lys Gly Glu Lys Gly Asp Leu Gly
 245 250 255
 Leu Pro Gly Ser Lys Gly Asp Arg Gly Met Lys Gly Asp Ala Gly Val
 260 265 270
 Met Gly Pro Pro Gly Ala Gln Gly Ser Lys Gly Asp Phe Gly Arg Pro
 275 280 285
 Gly Pro Pro Gly Leu Ala Gly Phe Pro Gly Ala Lys Gly Asp Gln Gly
 290 295 300
 Gln Pro Gly Leu Gln Gly Val Pro Gly Pro Pro Gly Ala Val Gly His
 305 310 315 320
 Pro Gly Ala Lys Gly Glu Pro Gly Ser Ala Gly Ser Pro Gly Arg Ala
 325 330 335
 Gly Leu Pro Gly Ser Pro Gly Ser Pro Gly Ala Thr Gly Leu Lys Gly
 340 345 350
 Ser Lys Gly Asp Thr Gly Leu Gln Gly Gln Gln Gly Arg Lys Gly Glu
 355 360 365
 Ser Gly Val Pro Gly Pro Ala Gly Val Lys Gly Glu Gln Gly Ser Pro
 370 375 380
 Gly Leu Ala Gly Pro Lys Gly Ala Pro Gly Gln Ala Ala Arg Arg Glu
 385 390 395 400
 Thr Arg Glu

<210> 690

<211> 494

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (271)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (462)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (463)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (482)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (483)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (490)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 690
 Ser Arg Val Arg Lys Phe Pro Gly Arg Pro Thr Arg Pro Thr Glu Gln
 1 5 10 15
 Ile Arg Gln Asp Arg Ser Lys Gly Thr Val His Phe Ala Val Val Ile
 20 25 30
 Thr Asp Gly His Val Thr Gly Ser Pro Cys Gly Gly Ile Lys Leu Xaa
 35 40 45
 Ala Glu Arg Ala Arg Glu Glu Gly Ile Arg Leu Phe Ala Val Ala Pro
 50 55 60
 Asn Gln Asn Leu Lys Glu Gln Gly Leu Arg Asp Ile Ala Ser Thr Pro
 65 70 75 80

709

Gly Glu Pro Gly Lys Gln Gly Ser Arg Gly Asp Pro Gly Asp Ala Gly
 355 360 365

Pro Arg Gly Asp Ser Gly Gln Pro Gly Pro Lys Gly Asp Pro Gly Arg
 370 375 380

Pro Gly Phe Ser Tyr Pro Gly Pro Arg Gly Ala Pro Gly Glu Lys Gly
 385 390 395 400

Glu Pro Gly Pro Arg Gly Pro Glu Gly Gly Arg Gly Asp Phe Gly Leu
 405 410 415

Lys Gly Glu Pro Gly Arg Lys Gly Glu Lys Gly Glu Pro Ala Asp Pro
 420 425 430

Gly Pro Pro Gly Glu Pro Gly Pro Arg Gly Pro Arg Gly Val Pro Gly
 435 440 445

Pro Glu Gly Glu Pro Gly Pro Pro Gly Asp Pro Gly Leu Xaa Xaa Val
 450 455 460

Arg Lys Arg Cys Cys Ala Leu Glu Val Val Phe Arg His Ser Thr Ala
 465 470 475 480

Pro Xaa Xaa Leu Gly Thr Thr Asn Leu Xaa Trp Glu Lys Asn
 485 490

<210> 691

<211> 433

<212> PRT

<213> Homo sapiens

<400> 691

Leu Val Glu Gln Ser Gly Lys Ala Leu Leu Gly Pro His Ile Ser Glu
 1 5 10 15

Lys Ala Glu Leu Gly Ser Cys Leu Arg Ser Leu Gln Gly Gln Pro Arg
 20 25 30

Arg Leu Ala Val Pro Ser Arg Pro Leu Ser Ala Asp Val Asn Glu Cys
 35 40 45

Leu Thr Ile Pro Glu Ala Cys Lys Gly Glu Met Lys Cys Ile Asn His
 50 55 60

Tyr Gly Gly Tyr Leu Cys Leu Pro Arg Ser Ala Ala Val Ile Asn Asp
 65 70 75 80

710

```

Leu His Gly Glu Gly Pro Pro Pro Pro Val Pro Pro Ala Gln His Pro
      85                      90                      95

Asn Pro Cys Pro Pro Gly Tyr Glu Pro Asp Asp Gln Asp Ser Cys Val
      100                      105                      110

Asp Val Asp Glu Cys Ala Gln Ala Leu His Asp Cys Arg Pro Ser Gln
      115                      120                      125

Asp Cys His Asn Leu Pro Gly Ser Tyr Gln Cys Thr Cys Pro Asp Gly
      130                      135                      140

Tyr Arg Lys Ile Gly Pro Glu Cys Val Asp Ile Asp Glu Cys Arg Tyr
      145                      150                      155                      160

Arg Tyr Cys Gln His Arg Cys Val Asn Leu Pro Gly Ser Phe Arg Cys
      165                      170                      175

Gln Cys Glu Pro Gly Phe Gln Leu Gly Pro Asn Asn Arg Ser Cys Val
      180                      185                      190

Asp Val Asn Glu Cys Asp Met Gly Ala Pro Cys Glu Gln Arg Cys Phe
      195                      200                      205

Asn Ser Tyr Gly Thr Phe Leu Cys Arg Cys His Gln Gly Tyr Glu Leu
      210                      215                      220

His Arg Asp Gly Phe Ser Cys Ser Asp Ile Asp Glu Cys Ser Tyr Ser
      225                      230                      235                      240

Ser Tyr Leu Cys Gln Tyr Arg Cys Val Asn Glu Pro Gly Arg Phe Ser
      245                      250                      255

Cys His Cys Pro Gln Gly Tyr Gln Leu Leu Ala Thr Arg Leu Cys Gln
      260                      265                      270

Asp Ile Asp Glu Cys Glu Ser Gly Ala His Gln Cys Ser Glu Ala Gln
      275                      280                      285

Thr Cys Val Asn Phe His Gly Gly Tyr Arg Cys Val Asp Thr Asn Arg
      290                      295                      300

Cys Val Glu Pro Tyr Ile Gln Val Ser Glu Asn Arg Cys Leu Cys Pro
      305                      310                      315                      320

Ala Ser Asn Pro Leu Cys Arg Glu Gln Pro Ser Ser Ile Val His Arg
      325                      330                      335

Tyr Met Thr Ile Thr Ser Glu Arg Ser Val Pro Ala Asp Val Phe Gln
      340                      345                      350

```

711

Ile Gln Ala Thr Ser Val Tyr Pro Gly Ala Tyr Asn Ala Phe Gln Ile
 355 360 365

Arg Ala Gly Asn Ser Gln Gly Asp Phe Tyr Ile Arg Gln Ile Asn Asn
 370 375 380

Val Ser Ala Met Leu Val Leu Ala Arg Pro Val Thr Gly Pro Arg Glu
 385 390 395 400

Tyr Val Leu Asp Leu Glu Met Val Thr Met Asn Ser Leu Met Ser Tyr
 405 410 415

Arg Ala Ser Ser Val Leu Arg Leu Thr Val Phe Val Gly Ala Tyr Thr
 420 425 430

Phe

<210> 692
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 692
 Leu Gln Arg Asp Leu Arg Glu Gly His Ala Asn Pro Thr Ala Asp Leu
 1 5 10 15

Lys Ser Leu Ala Glu Leu Gly Asp Cys Asn Glu Asp Leu Glu Gln Val
 20 25 30

Glu Lys Cys Met Leu Pro Glu Cys Pro Ile Asp Cys Glu Leu Thr Glu
 35 40 45

Trp Ser Gln Trp Ser Glu Cys Asn Lys Ser Cys Gly Lys Gly His Val
 50 55 60

Ile Arg Thr Arg Met Ile Gln Met Glu Pro Gln Phe Gly Gly Ala Pro
 65 70 75 80

Cys Pro Glu Thr Val Gln Arg Lys Lys Cys Arg Ile Arg Lys Cys Leu
 85 90 95

Arg Asn Pro Ser Ile Gln Lys Leu Arg Trp Arg Glu Ala Arg Glu Ser
 100 105 110

Arg Arg Ser Glu Gln Leu Lys Glu Glu Ser Glu Gly Glu Gln Phe Pro
 115 120 125

Gly Cys Arg Met Arg Pro Trp Thr Ala Trp Ser Glu Cys Thr Lys Leu

712

130 135 140
 Cys Gly Gly Gly Ile Gln Glu Arg Tyr Met Thr Val Lys Lys Arg Phe
 145 150 155 160
 Lys Ser Ser Gln Phe Thr Ser Cys Lys Asp Lys Lys Glu Ile Arg Ala
 165 170 175
 Cys Asn Val His Pro Cys
 180

<210> 693
 <211> 283
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 693
 Ala Glu His Phe Pro Pro Gly Lys Tyr Arg Ile Ser Cys Pro Gly Gln
 1 5 10 15
 Glu Ser Asp Ala Gly Asp Arg Val Met Val Leu Asn Arg Ser Gly Met
 20 25 30
 Trp Gln Glu Glu Val Thr Val Pro Ser Val Gln Thr Phe Leu Ile Pro
 35 40 45
 Glu Ala Met Thr Phe Glu Glu Ala Ala Ala Leu Leu Val Asn Tyr Ile
 50 55 60
 Thr Ala Tyr Met Val Leu Phe Asp Phe Gly Asn Leu Gln Pro Gly His
 65 70 75 80
 Ser Val Leu Val His Met Ala Ala Gly Gly Val Gly Met Ala Ala Val
 85 90 95
 Xaa Leu Cys Arg Thr Val Glu Asn Val Thr Val Phe Gly Thr Ala Ser
 100 105 110
 Ala Ser Lys His Glu Ala Leu Lys Glu Asn Gly Val Thr His Pro Ile
 115 120 125
 Asp Tyr His Thr Thr Asp Tyr Val Asp Glu Ile Lys Lys Ile Ser Pro
 130 135 140

713

Lys Gly Val Asp Ile Val Met Asp Pro Leu Gly Gly Ser Asp Thr Ala
 145 150 155 160
 Lys Gly Tyr Asn Leu Leu Lys Pro Met Gly Lys Val Val Thr Tyr Gly
 165 170 175
 Met Ala Asn Leu Leu Thr Gly Pro Lys Arg Asn Leu Met Ala Leu Ala
 180 185 190
 Arg Thr Trp Trp Asn Gln Phe Ser Val Thr Ala Leu Gln Leu Leu Gln
 195 200 205
 Ala Asn Arg Ala Val Cys Gly Phe His Leu Gly Tyr Leu Asp Gly Glu
 210 215 220
 Val Glu Leu Val Ser Gly Val Val Ala Arg Leu Leu Ala Leu Tyr Asn
 225 230 235 240
 Gln Gly His Ile Lys Pro His Ile Asp Ser Val Trp Pro Phe Glu Lys
 245 250 255
 Val Ala Asp Ala Met Lys Gln Met Gln Glu Lys Lys Asn Val Gly Lys
 260 265 270
 Val Leu Leu Val Pro Gly Pro Glu Lys Glu Asn
 275 280

<210> 694
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 694
 Gly Glu Ala Pro Asp Pro His Ala Ala Arg Thr Glu Leu Ser Ala Pro
 1 5 10 15
 Leu Pro Ala Thr Ala Ser Arg Ala Ser Leu Ser Ser Asn Met Ala Lys
 20 25 30
 Ile Ser Ser Pro Thr Glu Thr Glu Arg Cys Ile Glu Ser Leu Ile Ala
 35 40 45
 Val Phe Gln Lys Tyr Ala Gly Lys Asp Gly Tyr Asn Tyr Thr Leu Ser
 50 55 60
 Lys Thr Glu Phe Leu Ser Phe Met Asn Thr Glu Leu Ala Ala Phe Thr
 65 70 75 80
 Lys Asn Gln Lys Asp Pro Gly Val Leu Asp Arg Met Met Lys Lys Leu

714

85 90 95
 Asp Thr Asn Ser Asp Gly Gln Leu Asp Phe Ser Glu Phe Leu Asn Leu
 100 105 110
 Ile Gly Gly Leu Ala Met Ala Cys His Asp Ser Phe Leu Lys Ala Val
 115 120 125
 Pro Ser Gln Lys Arg Thr
 130

<210> 695
 <211> 113
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 695
 Gly Ser Ser Glu Gly Ser Tyr Ser Ser Gln Thr Glu Thr Cys Pro Leu
 1 5 10 15
 Thr Pro Ser Leu Val Thr Gly Ser Met Phe Ala Gln Asn Phe Leu Arg
 20 25 30
 Gly Leu Ser Leu Gln Lys Ser Asn Leu Leu Pro Glu Cys Cys Leu Ala
 35 40 45
 Ser Glu Asn Leu Thr Leu Ser Phe Pro Ser Val Asn Gly His Arg Cys
 50 55 60
 Val Ala Gln Gly Ser Glu Thr Ser Glu Ser Arg Ala Gln Trp His Gly
 65 70 75 80
 Val Ala Leu Val Val Arg Lys Val Ile Gly Gln Leu Tyr Cys Lys Arg
 85 90 95
 Asn Lys Tyr Val Val Gln Phe Cys Lys Cys Gln Val Cys Ser Xaa Val
 100 105 110
 Leu

<210> 696

715

<211> 409

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 696

Gly	Glu	Arg	Glu	Gly	Gly	Asp	Cys	Lys	Gln	Asp	Ser	Leu	Val	Ile	Asn
1				5					10					15	

Leu	Asn	Arg	Ser	Asn	Pro	Lys	Leu	Lys	Asp	Leu	Tyr	Ile	Arg	Pro	Asn
		20						25					30		

Ile	Ala	Gln	Lys	Arg	Met	Gln	Gly	Ser	Leu	Glu	Ala	His	Val	Asn	Gly
	35						40					45			

Phe	Arg	Phe	Thr	Ser	Val	Arg	Gly	Asp	Lys	Val	Asp	Ile	Leu	Tyr	Asn
	50						55				60				

Asn	Ile	Lys	His	Ala	Leu	Phe	Gln	Pro	Cys	Asp	Gly	Glu	Met	Ile	Ile
65					70					75				80	

Val	Leu	His	Phe	His	Leu	Lys	Asn	Ala	Ile	Met	Phe	Gly	Lys	Lys	Arg
			85						90					95	

His	Thr	Asp	Val	Gln	Phe	Tyr	Thr	Glu	Val	Gly	Glu	Ile	Thr	Xaa	Asp
		100						105					110		

Leu	Gly	Lys	His	Gln	His	Met	His	Asp	Arg	Asp	Asp	Leu	Tyr	Ala	Glu
	115						120					125			

Gln	Met	Glu	Arg	Glu	Met	Arg	His	Lys	Leu	Lys	Thr	Ala	Phe	Lys	Asn
	130					135					140				

Phe	Ile	Glu	Lys	Val	Glu	Ala	Leu	Thr	Lys	Glu	Glu	Leu	Glu	Phe	Glu
145				150					155					160	

Val	Pro	Phe	Arg	Asp	Leu	Gly	Phe	Asn	Gly	Ala	Pro	Tyr	Arg	Ser	Thr
			165					170					175		

Cys	Leu	Leu	Gln	Pro	Thr	Ser	Ser	Ala	Leu	Val	Asn	Ala	Thr	Glu	Trp
			180					185					190		

Pro Pro Phe Val Val Thr Leu Asp Glu Val Glu Leu Ile His Phe Xaa
 195 200 205
 Arg Val Gln Phe His Leu Lys Asn Phe Asp Met Val Ile Val Tyr Lys
 210 215 220
 Asp Tyr Ser Lys Lys Val Thr Met Ile Asn Ala Ile Pro Val Ala Ser
 225 230 235 240
 Leu Asp Pro Ile Lys Glu Trp Leu Asn Ser Cys Asp Leu Lys Tyr Thr
 245 250 255
 Glu Gly Val Gln Ser Leu Asn Trp Thr Lys Ile Met Lys Thr Ile Val
 260 265 270
 Asp Asp Pro Glu Gly Phe Phe Glu Gln Gly Gly Trp Ser Phe Leu Glu
 275 280 285
 Pro Glu Gly Glu Gly Ser Asp Ala Glu Glu Gly Asp Ser Glu Ser Glu
 290 295 300
 Ile Glu Asp Glu Thr Phe Asn Pro Ser Glu Asp Asp Tyr Glu Glu Glu
 305 310 315 320
 Glu Glu Asp Ser Asp Glu Asp Tyr Ser Ser Glu Ala Glu Glu Ser Asp
 325 330 335
 Tyr Ser Lys Glu Ser Leu Gly Ser Glu Glu Glu Ser Gly Lys Asp Trp
 340 345 350
 Asp Glu Leu Glu Glu Glu Ala Arg Lys Ala Asp Arg Glu Ser Arg Tyr
 355 360 365
 Glu Glu Glu Glu Glu Gln Ser Arg Ser Met Ser Arg Lys Arg Lys Ala
 370 375 380
 Ser Val His Ser Ser Gly Arg Gly Ser Asn Arg Gly Ser Arg His Ser
 385 390 395 400
 Ser Ala Pro Pro Lys Lys Lys Arg Lys
 405

<210> 697

<211> 97

<212> PRT

<213> Homo sapiens

<400> 697

Asn Thr Gln Gly Leu Ile Phe Val Val Asp Ser Asn Asp Arg Glu Arg

717

1 5 10 15
 Ile Gln Glu Val Ala Asp Glu Leu Gln Lys Met Leu Leu Val Asp Glu
 20 25 30
 Leu Arg Asp Ala Val Leu Leu Leu Phe Ala Asn Lys Gln Asp Leu Pro
 35 40 45
 Asn Ala Met Ala Ile Ser Glu Met Thr Asp Lys Leu Gly Leu Gln Ser
 50 55 60
 Leu Arg Asn Arg Thr Trp Tyr Val Gln Ala Thr Cys Ala Thr Gln Gly
 65 70 75 80
 Thr Gly Leu Tyr Glu Gly Leu Asp Trp Leu Ser Asn Glu Leu Ser Lys
 85 90 95
 Arg

<210> 698
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 698
 Trp Tyr Pro Glu Val Arg His His Cys Pro Asn Thr Pro Ile Ile Leu
 1 5 10 15
 Val Gly Thr Lys Leu Asp Leu Arg Asp Asp Lys Asp Thr Ile Glu Lys
 20 25 30
 Leu Lys Glu Lys Lys Leu Thr Pro Ile Thr Tyr Pro Gln Val
 35 40 45

<210> 699
 <211> 126
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 699
 Pro His Thr Val Leu Val Glu Phe Ser Ser Val Val Ala Asp Thr Gln

718

```

      1             5             10             15
Glu Tyr Ile Ile Glu Xaa Thr Ala Asp Asp Ala Glu Thr Arg Glu Ala
      20             25             30
Thr Glu Ile Ile Glu Gly Thr Gln Thr Glu Val Asp Ser His Ile Met
      35             40             45
Lys Val Val Gln Gln Ile Val His Gln Ala Ser Ala Gly His Gln Ile
      50             55             60
Ile Val Gln Asn Val Thr Met Asp Glu Glu Thr Ala Leu Gly Pro Glu
      65             70             75             80
Ala Ala Ala Ala Asp Thr Ile Thr Ile Ala Thr Pro Glu Ser Leu Thr
      85             90             95
Glu Gln Val Ala Met Thr Leu Pro Arg Pro Ser Ala Arg Ala Leu Cys
      100            105            110
Leu Pro Pro Gly Gln Gly Gln Val Ala Leu Asn Arg Pro Leu
      115            120            125

```

<210> 700

<211> 417

<212> PRT

<213> Homo sapiens

<400> 700

```

Ala Thr Gln Gly Val Val Thr Tyr Tyr Leu Gln Glu Ser Gly Val Met
  1             5             10             15
Pro Tyr Leu Ser Gln Leu Gly Phe Asp Val Val Gly Tyr Gly Cys Met
      20             25             30
Thr Cys Ile Gly Asn Ser Gly Pro Leu Pro Glu Pro Val Val Glu Ala
      35             40             45
Ile Thr Gln Gly Asp Leu Val Ala Val Gly Val Leu Ser Gly Asn Arg
      50             55             60
Asn Phe Glu Gly Arg Val His Pro Asn Thr Arg Ala Asn Tyr Leu Ala
      65             70             75             80
Ser Pro Pro Leu Val Ile Ala Tyr Ala Ile Ala Gly Thr Ile Arg Ile
      85             90             95
Asp Phe Glu Lys Glu Pro Leu Gly Val Asn Ala Lys Gly Gln Gln Val
      100            105            110

```

Phe Leu Lys Asp Ile Trp Pro Thr Arg Asp Glu Ile Gln Ala Val Glu
 115 120 125

Arg Gln Tyr Val Ile Pro Gly Met Phe Lys Glu Val Tyr Gln Lys Ile
 130 135 140

Glu Thr Val Asn Glu Ser Trp Asn Ala Leu Ala Thr Pro Ser Asp Lys
 145 150 155 160

Leu Phe Phe Trp Asn Ser Lys Ser Thr Tyr Ile Lys Ser Pro Pro Phe
 165 170 175

Phe Glu Asn Leu Thr Leu Asp Leu Gln Pro Pro Lys Ser Ile Val Asp
 180 185 190

Ala Tyr Val Leu Leu Asn Leu Gly Asp Ser Val Thr Thr Asp His Ile
 195 200 205

Ser Pro Ala Gly Asn Ile Ala Arg Asn Ser Pro Ala Ala Arg Tyr Leu
 210 215 220

Thr Asn Arg Gly Leu Thr Pro Arg Glu Phe Asn Ser Tyr Gly Ser Arg
 225 230 235 240

Arg Gly Asn Asp Ala Val Met Ala Arg Gly Thr Phe Ala Asn Ile Arg
 245 250 255

Leu Leu Asn Arg Phe Leu Asn Lys Gln Ala Pro Gln Thr Ile His Leu
 260 265 270

Pro Ser Gly Glu Ile Leu Asp Val Phe Asp Ala Ala Glu Arg Tyr Gln
 275 280 285

Gln Ala Gly Leu Pro Leu Ile Val Leu Ala Gly Lys Glu Tyr Gly Ala
 290 295 300

Gly Ser Ser Arg Asp Trp Ala Ala Lys Gly Pro Phe Leu Leu Gly Ile
 305 310 315 320

Lys Ala Val Leu Ala Glu Ser Tyr Glu Arg Ile His Arg Ser Asn Leu
 325 330 335

Val Gly Met Gly Val Ile Pro Leu Glu Tyr Leu Pro Gly Glu Asn Ala
 340 345 350

Asp Ala Leu Gly Leu Thr Gly Gln Glu Arg Tyr Thr Ile Ile Ile Pro
 355 360 365

Glu Asn Leu Lys Pro Gln Met Lys Val Gln Val Lys Leu Asp Thr Gly
 370 375 380

720

Lys Thr Phe Gln Ala Val Met Arg Phe Asp Thr Asp Val Glu Leu Thr
 385 390 395 400

Tyr Phe Leu Asn Gly Gly Ile Leu Asn Tyr Met Ile Arg Lys Met Ala
 405 410 415

Lys

<210> 701

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 701

Lys Ile Thr Val Ile Asn Cys Val Ile Gln Asn Ser Tyr Gln Ser Val
 1 5 10 15

Leu Lys Leu Lys His Cys Lys Ser Gly Trp Gln Tyr Ser Val Leu Asn
 20 25 30

Thr Phe Leu Ala Leu Val His Leu Arg Asn Glu Cys Ser Gly Gly Phe
 35 40 45

Tyr Pro Arg Lys His Val Val Ile Arg Ile Val Gly Val Pro Ile Ile
 50 55 60

Thr Ile Val Phe Cys Ile Leu Lys Lys Tyr Ser Pro His Phe Lys Cys
 65 70 75 80

Phe Ile Leu Glu Asn Ser Leu Met His Thr Cys Gln Ile Tyr Ile Tyr
 85 90 95

Ser Thr Asn Val Thr Phe Leu Phe Phe Val Leu Asp Val Arg Ala Cys
 100 105 110

Ser Tyr Val Arg Tyr Leu His Lys Leu Leu His Tyr Phe Phe Leu Cys
 115 120 125

Asn Thr Phe Leu Phe Val Tyr Val Val Gln Ile Tyr Ser Phe Leu Lys
 130 135 140

Xaa

145

<210> 702

<211> 317

<212> PRT

<213> Homo sapiens

<400> 702

```

Asp Phe Ser Asn Leu Gly Thr Thr His Leu Leu Arg Leu Thr Ser Ser
  1             5             10             15

Leu Thr Thr Lys Gly Ala Ser Ser Phe Lys Ile Thr Arg Gly Ile Glu
      20             25             30

Ala Val Gly Gly Lys Leu Ser Val Thr Ala Thr Arg Glu Asn Met Ala
      35             40             45

Tyr Thr Val Glu Cys Leu Arg Gly Asp Val Asp Ile Leu Met Glu Phe
  50             55             60

Leu Leu Asn Val Thr Thr Ala Pro Glu Phe Arg Arg Trp Glu Val Ala
  65             70             75             80

Asp Leu Gln Pro Gln Leu Lys Ile Asp Lys Ala Val Ala Phe Gln Asn
      85             90             95

Pro Gln Thr His Val Ile Glu Asn Leu His Ala Ala Ala Tyr Arg Asn
      100            105            110

Ala Leu Ala Asn Pro Leu Tyr Cys Pro Asp Tyr Arg Ile Gly Lys Val
      115            120            125

Thr Ser Glu Glu Leu His Tyr Phe Val Gln Asn His Phe Thr Ser Ala
      130            135            140

Arg Met Ala Leu Ile Gly Leu Gly Val Ser His Pro Val Leu Lys Gln
      145            150            155            160

Val Ala Glu Gln Phe Leu Asn Met Arg Gly Gly Leu Gly Leu Ser Gly
      165            170            175

Ala Lys Ala Asn Tyr Arg Gly Gly Glu Ile Arg Glu Gln Asn Gly Asp
      180            185            190

Ser Leu Val His Ala Ala Phe Val Ala Glu Ser Ala Val Ala Gly Ser
      195            200            205

Ala Glu Ala Asn Ala Phe Ser Val Leu Gln His Val Leu Gly Ala Gly
      210            215            220

```

722

Pro His Val Lys Arg Gly Ser Asn Thr Thr Ser His Leu His Gln Ala
 225 230 235 240

Val Ala Lys Ala Thr Gln Gln Pro Phe Asp Val Ser Ala Phe Asn Ala
 245 250 255

Ser Tyr Ser Asp Ser Gly Leu Phe Gly Ile Tyr Thr Ile Ser Gln Ala
 260 265 270

Thr Ala Ala Gly Asp Val Ile Lys Ala Ala Tyr Asn Gln Val Lys Thr
 275 280 285

Ile Ala Gln Gly Asn Leu Ser Asn Thr Asp Val Gln Ala Ala Lys Asn
 290 295 300

Lys Leu Lys Ala Gly Ile Pro Asn Val Ser Gly Val Phe
 305 310 315

<210> 703

<211> 357

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 703

Lys Asp Leu Val Met Ala Thr Gly Leu Ser Glu His His Asn Met Val
 1 5 10 15

Trp Glu Val Lys Thr Asn Gln Met Pro Asn Ala Val Gln Lys Leu Leu
 20 25 30

Leu Val Met Asp Lys Arg Ala Ser Gly Met Asn Asp Ser Leu Glu Leu
 35 40 45

Leu Gln Cys Asn Glu Asn Leu Pro Ser Ser Pro Gly Tyr Asn Ser Cys
 50 55 60

Asp Glu His Met Glu Leu Asp Asp Leu Pro Glu Leu Gln Ala Val Gln
 65 70 75 80

Ser Asp Pro Thr Gln Ser Gly Met Tyr Gln Leu Ser Ser Asp Val Ser
 85 90 95

His Gln Glu Tyr Pro Arg Ser Ser Trp Asn Gln Asn Thr Ser Asp Ile

723

100	105	110
Pro Glu Thr Thr Tyr Arg Glu Asn Glu Val Asp Trp Leu Thr Glu Leu		
115	120	125
Ala Asn Ile Ala Thr Ser Pro Gln Ser Pro Leu Met Gln Cys Ser Phe		
130	135	140
Tyr Asn Arg Ser Ser Pro Val His Ile Ile Ala Thr Ser Lys Ser Leu		
145	150	155
His Ser Tyr Ala Arg Pro Pro Pro Val Ser Ser Ser Ser Lys Ser Glu		
165	170	175
Pro Ala Phe Pro His His His Trp Lys Glu Glu Thr Pro Val Arg His		
180	185	190
Glu Arg Ala Asn Ser Glu Ser Glu Ser Gly Ile Phe Cys Met Ser Ser		
195	200	205
Leu Ser Asp Asp Asp Asp Leu Gly Trp Cys Asn Ser Trp Pro Ser Thr		
210	215	220
Val Trp His Cys Phe Leu Lys Gly Thr Arg Leu Cys Xaa His Lys Gly		
225	230	235
Ser Asn Lys Glu Trp Gln Asp Val Glu Asp Phe Ala Arg Ala Glu Gly		
245	250	255
Cys Asp Asn Glu Glu Asp Leu Gln Met Gly Ile His Lys Gly Tyr Gly		
260	265	270
Ser Asp Gly Leu Lys Leu Leu Ser His Glu Glu Ser Val Ser Phe Gly		
275	280	285
Glu Ser Val Leu Lys Leu Thr Phe Asp Pro Gly Thr Val Glu Asp Gly		
290	295	300
Leu Leu Thr Val Glu Cys Lys Leu Asp His Pro Phe Tyr Val Lys Asn		
305	310	315
Lys Gly Trp Ser Ser Phe Tyr Pro Ser Leu Thr Val Val Gln His Gly		
325	330	335
Ile Pro Cys Cys Glu Ser Ser Tyr Trp Arg Cys Met Ser Thr Ser Trp		
340	345	350
Thr Pro Arg Cys His		
355		

724

<210> 704
 <211> 181
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 704
 Ser His Leu Lys Lys Arg Thr Cys Gly Ser Trp Thr Ala Ser Lys Pro
 1 5 10 15
 Phe Leu Ser Val Cys Xaa Val Phe Leu Leu Val Pro Leu Leu Pro Pro
 20 25 30
 Leu Gln Asp Phe Arg Gly Thr Pro Thr Ser Leu Cys Pro Ser Ser Leu
 35 40 45
 Cys Pro Ile Arg Trp Gln Gly Xaa Cys Val Glu Arg Pro Gly Arg Cys
 50 55 60
 Arg Asn Gln Ser Pro Gly Gln Trp Cys Leu Ser Ser Pro Ser Leu Cys
 65 70 75 80
 Pro Cys Ala Pro Ser Cys Pro Arg Leu Gln Pro Arg Pro Trp Thr Cys
 85 90 95
 Ala Pro Val Cys Thr Cys Arg His Arg Gly Glu Gly Gly Val Phe Leu
 100 105 110
 Gly Leu Pro Gln Thr Leu Pro Leu Ala Ala Ser Leu Pro Cys Leu His
 115 120 125
 Ser Ser Thr Ile Thr Ile Ser Pro Lys Leu Leu Leu Thr Gln Ala Lys
 130 135 140
 Ala Ala Ser Gly Leu Pro Ser Thr Ala Leu Leu His Leu Ala Tyr His
 145 150 155 160
 Ser Pro Gly Pro Pro Gly Glu Pro Val Leu Cys Ser Leu Cys Phe Arg
 165 170 175
 Leu Val Cys Ala Pro

725

180

<210> 705

<211> 377

<212> PRT

<213> Homo sapiens

<400> 705

Ala Ala Ile Arg Gln Ala Leu Met Pro Val Ile Leu Gln Asp Ala Pro
1 5 10 15

Ser Ala Pro Gly His Ala Pro His Arg Gln Ala Ser Leu Ser Ile Ser
20 25 30

Val Ser Asn Ser Gln Ile Gln Glu Asn Val Asp Ile Ala Thr Val Tyr
35 40 45

Gln Ile Phe Pro Asp Glu Val Leu Gly Ser Gly Gln Phe Gly Val Val
50 55 60

Tyr Gly Gly Lys His Arg Lys Thr Gly Arg Asp Val Ala Val Lys Val
65 70 75 80

Ile Asp Lys Leu Arg Phe Pro Thr Lys Gln Glu Ser Gln Leu Arg Asn
85 90 95

Glu Val Ala Ile Leu Gln Ser Leu Arg His Pro Gly Ile Val Asn Leu
100 105 110

Glu Cys Met Phe Glu Thr Pro Glu Lys Val Phe Val Val Met Glu Lys
115 120 125

Leu His Gly Asp Met Leu Glu Met Ile Leu Ser Ser Glu Lys Gly Arg
130 135 140

Leu Pro Glu Arg Leu Thr Lys Phe Leu Ile Thr Gln Ile Leu Val Ala
145 150 155 160

Leu Arg His Leu His Phe Lys Asn Ile Val His Cys Asp Leu Lys Pro
165 170 175

Glu Asn Val Leu Leu Ala Ser Ala Asp Pro Phe Pro Gln Val Lys Leu
180 185 190

Cys Asp Phe Gly Phe Ala Arg Ile Ile Gly Glu Lys Ser Phe Arg Arg
195 200 205

Ser Val Val Gly Thr Pro Ala Tyr Leu Ala Pro Glu Val Leu Leu Asn
210 215 220

726

Gln Gly Tyr Asn Arg Ser Leu Asp Met Trp Ser Val Gly Val Ile Met
 225 230 235 240

Tyr Val Ser Leu Ser Gly Thr Phe Pro Phe Asn Glu Asp Glu Asp Ile
 245 250 255

Asn Asp Gln Ile Gln Asn Ala Ala Phe Met Tyr Pro Ala Ser Pro Trp
 260 265 270

Ser His Ile Ser Ala Gly Ala Ile Asp Leu Ile Asn Asn Leu Leu Gln
 275 280 285

Val Lys Met Arg Lys Arg Tyr Ser Val Asp Lys Ser Leu Ser His Pro
 290 295 300

Trp Leu Gln Glu Tyr Gln Thr Trp Leu Asp Leu Arg Glu Leu Glu Gly
 305 310 315 320

Lys Met Gly Glu Arg Tyr Ile Thr His Glu Ser Asp Asp Ala Arg Trp
 325 330 335

Glu Gln Phe Ala Ala Glu His Pro Leu Pro Gly Ser Gly Leu Pro Thr
 340 345 350

Asp Arg Asp Leu Gly Gly Ala Cys Pro Pro Gln Asp His Asp Met Gln
 355 360 365

Gly Leu Ala Glu Arg Ile Ser Val Leu
 370 375

<210> 706

<211> 414

<212> PRT

<213> Homo sapiens

<400> 706

Ser Arg Ala Pro Cys Pro Pro Thr Pro Gln Glu Gly Leu Asp Asp Gly
 1 5 10 15

Pro Asp Phe Leu Ser Glu Glu Asp Arg Gly Leu Lys Ala Ile Asn Val
 20 25 30

Asp Leu Gln Ser Asp Ala Ala Leu Gln Val Asp Ile Ser Asp Ala Leu
 35 40 45

Ser Glu Arg Asp Lys Val Lys Phe Thr Val His Thr Lys Ser Ser Leu
 50 55 60

```

Pro Asn Phe Lys Gln Asn Glu Phe Ser Val Val Arg Gln His Glu Glu
 65              70              75              80

Phe Ile Trp Leu His Asp Ser Phe Val Glu Asn Glu Asp Tyr Ala Gly
      85              90              95

Tyr Ile Ile Pro Pro Ala Pro Pro Arg Pro Asp Phe Asp Ala Ser Arg
      100              105              110

Glu Lys Leu Gln Lys Leu Gly Glu Gly Glu Gly Ser Met Thr Lys Glu
      115              120              125

Glu Phe Thr Lys Met Lys Gln Glu Leu Glu Ala Glu Tyr Leu Ala Ile
      130              135              140

Phe Lys Lys Thr Val Ala Met His Glu Val Phe Leu Cys Arg Val Ala
      145              150              155              160

Ala His Pro Ile Leu Arg Arg Asp Leu Asn Phe His Val Phe Leu Glu
      165              170              175

Tyr Asn Gln Asp Leu Ser Val Arg Gly Lys Asn Lys Lys Glu Lys Leu
      180              185              190

Glu Asp Phe Phe Lys Asn Met Val Lys Ser Ala Asp Gly Val Ile Val
      195              200              205

Ser Gly Val Lys Asp Val Asp Asp Phe Phe Glu His Glu Arg Thr Phe
      210              215              220

Leu Leu Glu Tyr His Asn Arg Val Lys Asp Ala Ser Ala Lys Ser Asp
      225              230              235              240

Arg Met Thr Arg Ser His Lys Ser Ala Ala Asp Asp Tyr Asn Arg Ile
      245              250              255

Gly Ser Ser Leu Tyr Ala Leu Gly Thr Gln Asp Ser Thr Asp Ile Cys
      260              265              270

Lys Phe Phe Leu Lys Val Ser Glu Leu Phe Asp Lys Thr Arg Lys Ile
      275              280              285

Glu Ala Arg Val Ser Ala Asp Glu Asp Leu Lys Leu Ser Asp Leu Leu
      290              295              300

Lys Tyr Tyr Leu Arg Glu Ser Gln Ala Ala Lys Asp Leu Leu Tyr Arg
      305              310              315              320

Arg Ser Arg Ser Leu Val Asp Tyr Glu Asn Ala Asn Lys Ala Leu Asp
      325              330              335

```


728

Lys Ala Arg Ala Lys Asn Lys Asp Val Leu Gln Ala Glu Thr Ser Gln
 340 345 350
 Gln Leu Cys Cys Gln Lys Phe Glu Lys Ile Ser Glu Ser Ala Lys Gln
 355 360 365
 Glu Leu Ile Asp Phe Lys Thr Arg Arg Val Ala Ala Phe Arg Lys Asn
 370 375 380
 Leu Val Glu Leu Ala Glu Leu Glu Leu Lys His Ala Lys Gly Asn Leu
 385 390 395 400
 Gln Leu Leu Gln Asn Cys Leu Ala Val Leu Asn Gly Asp Thr
 405 410

<210> 707
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 707
 Ala Arg Ala Glu Phe Gly Thr Arg Phe His Phe Pro Tyr Leu Leu Arg
 1 5 10 15
 Ala Ser Thr Ser Phe Phe Ser Leu Cys Pro Phe Cys Phe Ser Gln Ser
 20 25 30
 Pro Arg Ile Met Lys Val Ala Ser Gly Ser Thr Ala Thr Ala Ala Ala
 35 40 45
 Gly Pro Ser Cys Ala Leu Lys Ala Gly Lys Thr Ala Ser Gly Ala Gly
 50 55 60
 Glu Val Val Arg Cys Leu Ser Glu Gln Ser Val Ala Ile Ser Arg Cys
 65 70 75 80
 Ala Gly Gly Ala Gly Ala Arg Leu Pro Ala Leu Leu Asp Glu Gln Gln
 85 90 95
 Val Asn Val Leu Leu Tyr Asp Met Asn Gly Cys Tyr Ser Arg Leu Lys
 100 105 110
 Glu Leu Val Pro Thr Leu Pro Gln Asn Arg Lys
 115 120

<210> 708
 <211> 115

729

<212> PRT

<213> Homo sapiens

<400> 708

Gly Arg Glu Tyr Leu Val Pro Gln Gln Gly Arg Gln Phe Leu Ser Gln
 1 5 10 15

Lys Thr Val Cys Ser Val Val Lys Ile Val Ala Cys Met Phe Ser Ser
 20 25 30

Glu Arg Val Leu Leu Pro Tyr Ser Leu Ser Ala Ser Pro Ala Cys Ser
 35 40 45

Cys Cys Met Val Ile Ala Leu Gly His Gln Ser Asn Asp Cys Lys Ser
 50 55 60

Ala Trp Ile Phe Thr Cys Arg Gly Tyr Ser Cys Ile Val Arg Ser Pro
 65 70 75 80

Ser Pro Ala Glu Ser Ser Leu His Trp Leu Ala Val Cys Cys Val Phe
 85 90 95

His Ser Phe Gln Lys Ser Tyr Ile Val Ser Leu Asp Ile Phe Lys Asn
 100 105 110

Cys Asp Phe
 115

<210> 709

<211> 318

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 709

Gly Arg Arg Asp Gln Pro Pro Val Ser Ser Gly Arg Pro Pro Leu Trp
 1 5 10 15

Gly Leu Arg Gly Met Met Glu Ala Leu Gly Phe Leu Lys Leu Glu Val
 20 25 30

Asn Gly Pro Met Val Thr Val Ala Leu Ser Val Ala Leu Leu Ala Leu
 35 40 45

Leu Lys Trp Tyr Ser Thr Ser Ala Phe Ser Arg Leu Glu Lys Leu Gly

730

50	55	60
Leu Arg His Pro Lys Pro Ser Pro Phe Ile Gly Asn Leu Thr Phe Phe		
65	70	75 80
Arg Gln Gly Phe Trp Glu Ser Gln Met Glu Leu Arg Lys Leu Tyr Gly		
	85	90 95
Pro Leu Cys Gly Tyr Tyr Leu Gly Arg Arg Met Phe Ile Val Ile Ser		
	100	105 110
Glu Pro Asp Met Ile Lys Gln Val Leu Val Glu Asn Phe Ser Asn Phe		
	115	120 125
Thr Asn Arg Met Ala Ser Gly Leu Glu Phe Lys Ser Val Ala Asp Ser		
	130	135 140
Val Leu Phe Leu Arg Asp Lys Arg Trp Glu Glu Val Arg Gly Ala Leu		
	145	150 155 160
Met Ser Ala Phe Ser Pro Glu Lys Leu Asn Glu Met Val Pro Leu Ile		
	165	170 175
Ser Gln Ala Cys Asp Leu Leu Leu Ala His Leu Lys Arg Tyr Ala Glu		
	180	185 190
Ser Gly Asp Ala Phe Asp Ile Gln Arg Cys Tyr Cys Asn Tyr Thr Thr		
	195	200 205
Asp Val Val Ala Ser Val Ala Phe Gly Thr Pro Val Asp Ser Trp Gln		
	210	215 220
Ala Pro Glu Asp Pro Phe Val Lys His Cys Lys Arg Phe Phe Glu Phe		
	225	230 235 240
Cys Ile Pro Arg Pro Ile Leu Val Leu Leu Leu Ser Phe Pro Ser Ile		
	245	250 255
Met Val Pro Leu Ala Arg Ile Leu Pro Asn Lys Asn Arg Asp Glu Leu		
	260	265 270
Asn Gly Phe Phe Asn Lys Leu Ile Arg Asn Val Ile Cys Leu Ala Gly		
	275	280 285
Pro Ala Ser Cys Arg Arg Glu Ala Glu Arg Leu Pro Pro Asn Gly Pro		
	290	295 300
Gly Cys Pro Thr Phe Cys Lys Ser His Gly Xaa Ala Arg Leu		
	305	310 315

731

<210> 710

<211> 188

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 710

Gly	Cys	Leu	Gly	Lys	Arg	Met	Ile	Leu	Asn	Lys	Ala	Leu	Met	Leu	Gly
1				5					10					15	

Ala	Leu	Ala	Leu	Thr	Thr	Val	Met	Ser	Pro	Cys	Gly	Gly	Glu	Asp	Ile
			20					25					30		

Val	Ala	Asp	His	Val	Ala	Ser	Tyr	Gly	Val	Asn	Leu	Tyr	Gln	Ser	Tyr
		35					40					45			

Gly	Pro	Ser	Gly	Gln	Tyr	Thr	His	Glu	Phe	Asp	Gly	Asp	Glu	Gln	Phe
	50					55					60				

Tyr	Val	Asp	Leu	Gly	Arg	Lys	Glu	Thr	Val	Trp	Cys	Leu	Pro	Val	Leu
65					70					75					80

Arg	Gln	Phe	Arg	Phe	Asp	Pro	Gln	Phe	Ala	Leu	Thr	Asn	Ile	Ala	Val
			85						90					95	

Leu	Lys	His	Asn	Leu	Asn	Ser	Leu	Ile	Lys	Arg	Ser	Asn	Ser	Thr	Ala
			100					105					110		

Ala	Thr	Asn	Glu	Val	Pro	Glu	Val	Thr	Val	Phe	Ser	Lys	Ser	Pro	Val
		115					120					125			

Thr	Leu	Gly	Gln	Pro	Asn	Ile	Leu	Ile	Cys	Leu	Val	Asp	Asn	Ile	Phe
	130					135					140				

Pro	Pro	Val	Val	Asn	Ile	Thr	Trp	Leu	Ser	Asn	Gly	His	Ser	Val	Thr
145					150					155					160

Glu	Gly	Val	Ser	Glu	Thr	Ser	Phe	Leu	Ser	Lys	Ser	Asp	His	Ser	Phe
				165						170				175	

Phe	Lys	Ile	Ser	Tyr	Leu	Xaa	Leu	Pro	Pro	Phe	Cys
			180					185			

<210> 711

732

<211> 374

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 711

Gly Glu Val Leu Arg Arg Gly Lys Ala Glu Leu Glu Glu Gln Lys Arg
 1 5 10 15

Leu Leu Asp Arg Thr Val Asp Arg Leu Asn Lys Glu Leu Glu Lys Ile
 20 25 30

Gly Glu Asp Ser Lys Gln Ala Leu Gln Gln Leu Gln Ala Gln Leu Glu
 35 40 45

Asp Tyr Lys Glu Lys Ala Arg Arg Glu Val Ala Asp Ala Gln Arg Gln
 50 55 60

Ala Lys Asp Trp Ala Ser Glu Ala Glu Lys Thr Ser Gly Gly Leu Ser
 65 70 75 80

Arg Leu Gln Asp Xaa Ile Gln Arg Leu Arg Gln Ala Leu Gln Ala Ser
 85 90 95

Gln Ala Glu Arg Asp Thr Ala Arg Leu Asp Lys Glu Leu Leu Ala Gln
 100 105 110

Arg Leu Gln Gly Leu Glu Gln Glu Ala Glu Asn Lys Lys Arg Ser Gln
 115 120 125

Asp Asp Arg Ala Arg Gln Leu Lys Gly Leu Glu Glu Lys Val Ser Arg
 130 135 140

Leu Glu Thr Glu Leu Asp Glu Glu Lys Asn Thr Val Glu Leu Leu Thr
 145 150 155 160

Asp Arg Val Asn Arg Gly Arg Asp Gln Val Asp Gln Leu Arg Thr Glu
 165 170 175

Leu Met Gln Glu Arg Ser Ala Arg Gln Asp Leu Glu Cys Asp Lys Ile
 180 185 190

Ser Leu Glu Arg Gln Asn Lys Asp Leu Lys Thr Arg Leu Ala Ser Ser
 195 200 205

Glu Gly Phe Gln Lys Pro Ser Ala Ser Leu Ser Gln Leu Glu Ser Gln
 210 215 220

733

Asn Gln Leu Leu Gln Glu Arg Leu Gln Ala Glu Glu Arg Glu Lys Thr
 225 230 235 240

Val Leu Gln Ser Thr Asn Arg Lys Leu Glu Arg Lys Val Lys Glu Leu
 245 250 255

Ser Ile Gln Ile Glu Asp Glu Arg Gln His Val Asn Asp Gln Lys Asp
 260 265 270

Gln Leu Ser Leu Arg Val Lys Ala Leu Lys Arg Gln Val Asp Glu Ala
 275 280 285

Glu Glu Glu Ile Glu Arg Leu Asp Gly Leu Arg Lys Lys Ala Gln Arg
 290 295 300

Glu Val Glu Glu Gln His Glu Val Asn Glu Gln Leu Gln Ala Arg Ile
 305 310 315 320

Lys Ser Leu Glu Lys Asp Ser Trp Arg Lys Ala Ser Arg Ser Ala Ala
 325 330 335

Glu Ser Ala Leu Lys Asn Glu Gly Leu Ser Ser Asp Glu Glu Phe Asp
 340 345 350

Ser Val Tyr Asp Pro Ser Ser Ile Ala Ser Leu Leu Thr Glu Ser Asn
 355 360 365

Leu Gln Thr Ser Ser Cys
 370

<210> 712

<211> 413

<212> PRT

<213> Homo sapiens

<400> 712

Gly Gly Phe Gly Leu Leu Gly Phe Leu Ser Ala Leu Leu Ala Leu Val
 1 5 10 15

Leu Arg Ala Arg Ala Gly Ser Gln Thr Pro Gln Thr Leu Leu Leu Pro
 20 25 30

Ala Ala Ala Phe Arg Arg Gly Glu Thr Pro Arg Phe Lys Met Ser Leu
 35 40 45

Phe Gly Thr Thr Ser Gly Phe Gly Thr Ser Gly Thr Ser Met Phe Gly
 50 55 60

734

Ser Ala Thr Thr Asp Asn His Asn Pro Met Lys Asp Ile Glu Val Thr
 65 70 75 80
 Ser Ser Pro Asp Asp Ser Ile Gly Cys Leu Ser Phe Ser Pro Pro Thr
 85 90 95
 Leu Pro Gly Asn Phe Leu Ile Ala Gly Ser Trp Ala Asn Asp Val Arg
 100 105 110
 Cys Trp Glu Val Gln Asp Ser Gly Gln Thr Ile Pro Lys Ala Gln Gln
 115 120 125
 Met His Thr Gly Pro Val Leu Asp Val Cys Trp Ser Asp Asp Gly Ser
 130 135 140
 Lys Val Phe Thr Ala Ser Cys Asp Lys Thr Ala Lys Met Trp Asp Leu
 145 150 155 160
 Ser Ser Asn Gln Ala Ile Gln Ile Ala Gln His Asp Ala Pro Val Lys
 165 170 175
 Thr Ile His Trp Ile Lys Ala Pro Asn Tyr Ser Cys Val Met Thr Gly
 180 185 190
 Ser Trp Asp Lys Thr Leu Lys Phe Trp Asp Thr Arg Ser Ser Asn Pro
 195 200 205
 Met Met Val Leu Gln Leu Pro Glu Arg Cys Tyr Cys Ala Asp Val Ile
 210 215 220
 Tyr Pro Met Ala Val Val Ala Thr Ala Glu Arg Gly Leu Ile Val Tyr
 225 230 235 240
 Gln Leu Glu Asn Gln Pro Ser Glu Phe Arg Arg Ile Glu Ser Pro Leu
 245 250 255
 Lys His Gln His Arg Cys Val Ala Ile Phe Lys Asp Lys Gln Asn Lys
 260 265 270
 Pro Thr Gly Phe Ala Leu Gly Ser Ile Glu Gly Arg Val Ala Ile His
 275 280 285
 Tyr Ile Asn Pro Pro Asn Pro Ala Lys Asp Asn Phe Thr Phe Lys Cys
 290 295 300
 His Arg Ser Asn Gly Thr Asn Thr Ser Ala Pro Gln Asp Ile Tyr Ala
 305 310 315 320
 Val Asn Gly Ile Ala Phe His Pro Val His Gly Thr Leu Ala Thr Val
 325 330 335

735

Gly Ser Asp Gly Arg Phe Ser Phe Trp Asp Lys Asp Ala Arg Thr Lys
 340 345 350
 Leu Lys Thr Ser Glu Gln Leu Asp Gln Pro Ile Ser Ala Cys Cys Phe
 355 360 365
 Asn His Asn Gly Asn Ile Phe Ala Tyr Ala Ser Ser Tyr Asp Trp Ser
 370 375 380
 Lys Gly His Glu Phe Tyr Asn Pro Gln Lys Lys Asn Tyr Ile Phe Leu
 385 390 395 400
 Arg Asn Ala Ala Glu Glu Leu Lys Pro Arg Asn Lys Lys
 405 410

<210> 713

<211> 374

<212> PRT

<213> Homo sapiens

<400> 713

Ser Thr His Ala Ser Ala His Ala Ser Gly Pro Thr Arg Pro Gly Ala
 1 5 10 15
 Trp Ser Ala Ala Ala Ala Gly Pro Gly Ala Gly Ala Ala Ala Ala Ala
 20 25 30
 Thr Gly Gly Gly Gly Gly Ala Leu Glu Ala Ala Met Ala Lys Gln Tyr
 35 40 45
 Asp Ser Val Glu Cys Pro Phe Cys Asp Glu Val Ser Lys Tyr Glu Lys
 50 55 60
 Leu Ala Lys Ile Gly Gln Gly Thr Phe Gly Glu Val Phe Lys Ala Arg
 65 70 75 80
 His Arg Lys Thr Gly Gln Lys Val Ala Leu Lys Lys Val Leu Met Glu
 85 90 95
 Asn Glu Lys Glu Gly Phe Pro Ile Thr Ala Leu Arg Glu Ile Lys Ile
 100 105 110
 Leu Gln Leu Leu Lys His Glu Asn Val Val Asn Leu Ile Glu Ile Cys
 115 120 125
 Arg Thr Lys Ala Ser Pro Tyr Asn Arg Cys Lys Gly Ser Ile Tyr Leu
 130 135 140
 Val Phe Asp Phe Cys Glu His Asp Leu Ala Gly Leu Leu Ser Asn Val

736

```

145              150              155              160
Leu Val Lys Phe Thr Leu Ser Glu Ile Lys Arg Val Met Gln Met Leu
              165              170              175
Leu Asn Gly Leu Tyr Tyr Ile His Arg Asn Lys Ile Leu His Arg Asp
              180              185              190
Met Lys Ala Ala Asn Val Leu Ile Thr Arg Asp Gly Val Leu Lys Leu
              195              200              205
Ala Asp Phe Gly Leu Ala Arg Ala Phe Ser Leu Ala Lys Asn Ser Gln
              210              215              220
Pro Asn Arg Tyr Thr Asn Arg Val Val Thr Leu Trp Tyr Arg Pro Pro
225              230              235              240
Glu Leu Leu Leu Gly Glu Arg Asp Tyr Gly Pro Pro Ile Asp Leu Trp
              245              250              255
Gly Ala Gly Cys Ile Met Ala Glu Met Trp Thr Arg Ser Pro Ile Met
              260              265              270
Gln Gly Asn Thr Glu Gln His Gln Leu Ala Leu Ile Ser Gln Leu Cys
              275              280              285
Gly Ser Ile Thr Pro Glu Val Trp Pro Asn Val Asp Asn Tyr Glu Leu
              290              295              300
Tyr Glu Lys Leu Glu Leu Val Lys Gly Gln Lys Arg Lys Val Lys Asp
305              310              315              320
Arg Leu Lys Ala Met Cys Val Thr His Thr His Trp Thr Ser Ser Thr
              325              330              335
Ser Cys Trp Cys Trp Thr Leu Pro Ser Ala Ser Thr Ala Met Thr Pro
              340              345              350
Ser Thr Thr Thr Ser Ser Gly Pro Thr Pro Cys Pro Pro Thr Ser Arg
              355              360              365
Ala Cys Ser Pro Pro Thr
              370

```

<210> 714

<211> 764

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (725)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 714

Asp	Asp	Val	Gln	Ser	Ile	Asn	Trp	Leu	Arg	Asp	Gly	Val	Gln	Leu	Ala
1				5					10					15	

Glu	Ser	Asn	Arg	Thr	Arg	Ile	Thr	Gly	Glu	Glu	Val	Glu	Val	Gln	Asp
			20					25						30	

Ser	Val	Pro	Ala	Asp	Ser	Gly	Leu	Tyr	Ala	Cys	Xaa	Thr	Ser	Ser	Pro
		35					40					45			

Ser	Gly	Ser	Asp	Thr	Thr	Tyr	Phe	Ser	Val	Asn	Val	Ser	Xaa	Ala	Leu
	50					55					60				

Pro	Ser	Ser	Glu	Asp	Asp	Asp	Asp	Asp	Asp	Ser	Ser	Ser	Glu	Gly	
65					70				75					80	

Xaa	Glu	Thr	Asp	Asn	Thr	Lys	Pro	Asn	Arg	Met	Pro	Val	Ala	Pro	Tyr
				85					90					95	

Trp	Thr	Ser	Pro	Glu	Lys	Met	Glu	Lys	Lys	Leu	His	Ala	Val	Pro	Ala
			100					105						110	

Ala	Lys	Thr	Val	Lys	Phe	Lys	Cys	Pro	Ser	Ser	Gly	Xaa	Pro	Asn	Pro
			115				120						125		

Thr	Leu	Arg	Trp	Leu	Lys	Asn	Gly	Lys	Glu	Phe	Lys	Pro	Asp	His	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

738

130	135	140
Ile Gly Gly Tyr Lys Val Arg Tyr Ala Thr Trp Ser Ile Ile Met Asp		
145	150	155 160
Ser Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Ile Val Glu Asn		
	165	170 175
Glu Tyr Gly Ser Ile Asn His Thr Tyr Gln Leu Asp Val Val Glu Arg		
	180	185 190
Ser Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys Thr		
	195	200 205
Val Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser Asp		
	210	215 220
Pro Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly Ser		
	225	230 235 240
Lys Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Thr Ala		
	245	250 255
Gly Val Asn Thr Thr Asp Lys Glu Met Glu Val Leu His Leu Arg Asn		
	260	265 270
Val Ser Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser		
	275	280 285
Ile Gly Leu Ser His His Ser Ala Trp Leu Thr Val Leu Glu Ala Leu		
	290	295 300
Glu Glu Arg Pro Ala Val Met Thr Ser Pro Leu Tyr Leu Glu Ile Ile		
	305	310 315 320
Ile Tyr Cys Thr Gly Ala Phe Leu Ile Ser Cys Met Val Gly Ser Val		
	325	330 335
Ile Val Tyr Lys Met Lys Ser Gly Thr Lys Lys Ser Asp Phe His Ser		
	340	345 350
Gln Met Ala Val His Lys Leu Ala Lys Ser Ile Pro Leu Arg Arg Gln		
	355	360 365
Val Thr Val Ser Ala Asp Ser Ser Ala Ser Met Asn Ser Gly Val Leu		
	370	375 380
Leu Val Arg Pro Ser Arg Leu Ser Ser Ser Gly Thr Pro Met Leu Ala		
	385	390 395 400
Gly Val Ser Glu Tyr Glu Leu Pro Glu Asp Pro Arg Trp Glu Leu Pro		

739

405	410	415
Arg Asp Arg Leu Val Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly		
420	425	430
Gln Val Val Leu Ala Glu Ala Ile Gly Leu Asp Lys Asp Lys Pro Asn		
435	440	445
Arg Val Thr Lys Val Ala Val Lys Met Leu Lys Ser Asp Ala Thr Glu		
450	455	460
Lys Asp Leu Ser Asp Leu Ile Ser Glu Met Glu Met Met Lys Met Ile		
465	470	480
Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys Thr Gln Asp		
485	490	495
Gly Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg		
500	505	510
Glu Tyr Leu Gln Ala Arg Arg Pro Pro Gly Leu Glu Tyr Cys Tyr Asn		
515	520	525
Pro Ser His Asn Pro Glu Glu Gln Leu Ser Ser Lys Asp Leu Val Ser		
530	535	540
Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu Ala Ser Lys Lys		
545	550	555
Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Thr Glu Asp		
565	570	575
Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp Ile His His		
580	585	590
Ile Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro Val Lys Trp		
595	600	605
Met Ala Pro Glu Ala Leu Phe Asp Arg Ile Tyr Thr His Gln Ser Asp		
610	615	620
Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe Thr Leu Gly Gly		
625	630	635
Ser Pro Tyr Pro Gly Val Pro Val Glu Glu Leu Phe Lys Leu Leu Lys		
645	650	655
Glu Gly His Arg Met Asp Lys Pro Ser Asn Cys Thr Asn Glu Leu Tyr		
660	665	670
Met Met Met Arg Asp Cys Trp His Ala Val Pro Ser Gln Arg Pro Thr		

740

675	680	685
Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Ile Val Ala Leu Thr Ser		
690	695	700
Asn Gln Glu Tyr Leu Asp Leu Ser Met Pro Leu Asp Gln Tyr Ser Pro		
705	710	715 720
Ser Phe Pro Asp Xaa Arg Ser Ser Thr Cys Ser Ser Gly Glu Asp Ser		
	725	730 735
Val Phe Ser His Glu Pro Leu Pro Glu Glu Pro Cys Leu Pro Arg His		
	740	745 750
Pro Ala Gln Leu Ala Asn Gly Gly Leu Lys Arg Arg		
755	760	

<210> 715

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 715

Asp Pro Thr Gly Val Gln Gly Trp Arg Glu Asn Leu Cys Glu Glu Arg

741

```

      1             5             10             15
Glu Gly Ala Ser Arg Glu Phe Lys Gly Arg Cys Glu Xaa Ile Met Asp
      20             25             30
Ala Met Lys Arg Gly Leu Cys Cys Val Leu Leu Leu Cys Gly Ala Val
      35             40             45
Phe Val Ser Pro Ser Gln Glu Ile His Ala Arg Phe Arg Arg Gly Ala
      50             55             60
Arg Ser Tyr Gln Val Ile Cys Arg Asp Glu Lys Thr Gln Met Ile Tyr
      65             70             75             80
Gln Gln His Gln Ser Trp Leu Arg Pro Val Leu Arg Ser Asn Arg Val
      85             90             95
Glu Tyr Cys Trp Cys Asn Ser Gly Arg Ala Gln Cys His Ser Val Pro
      100            105            110
Val Lys Ser Cys Ser Glu Pro Arg Cys Phe Asn Gly Gly Thr Cys Gln
      115            120            125
Gln Ala Cys Thr Ser Gln Ile Ser Cys Ala Xaa Ala Pro Lys Ile Ser
      130            135            140
Xaa Asn Xaa Val Xaa Asn Thr Arg Pro Cys Tyr Glu Thr Arg Ala Gln
      145            150            155            160

```

<210> 716

<211> 221

<212> PRT

<213> Homo sapiens

<400> 716

```

Arg Ser Gly Pro Arg Thr Pro Ala Cys Pro Gly Leu Ala Ser Cys Thr
  1             5             10             15
Cys Cys Pro Leu Thr Pro Gly Lys Met Ala Gly Pro Trp Thr Phe Thr
      20             25             30
Leu Leu Cys Gly Leu Leu Ala Ala Thr Leu Ile Gln Ala Thr Leu Ser
      35             40             45
Pro Thr Ala Val Leu Ile Leu Gly Pro Lys Val Ile Lys Glu Lys Leu
      50             55             60

```

742

Thr Gln Glu Leu Lys Asp His Asn Ala Thr Ser Ile Leu Gln Gln Leu
65 70 75 80

Pro Leu Leu Ser Ala Met Arg Glu Lys Pro Ala Gly Gly Ile Pro Val
85 90 95

Leu Gly Ser Leu Val Asn Thr Val Leu Lys His Ile Ile Trp Leu Lys
100 105 110

Val Ile Thr Ala Asn Ile Leu Gln Leu Gln Val Lys Pro Ser Ala Asn
115 120 125

Asp Gln Glu Leu Leu Val Lys Ile Pro Leu Asp Met Val Ala Gly Phe
130 135 140

Asn Thr Pro Leu Val Lys Thr Ile Val Glu Phe His Met Thr Thr Glu
145 150 155 160

Ala Gln Ala Thr Ile Arg Met Asp Thr Ser Ala Ser Gly Pro Thr Arg
165 170 175

Leu Val Leu Ser Asp Cys Ala Thr Ser His Gly Ser Leu Arg Ile Gln
180 185 190

Leu Leu His Lys Leu Ser Phe Leu Val Asn Ala Leu Ala Lys Gln Val
195 200 205

Met Asn Leu Leu Val Pro Ser Met Pro Arg Trp Pro Asn
210 215 220

<210> 717

<211> 195

<212> PRT

<213> Homo sapiens

<400> 717

Thr His Pro Asn Gln Ser Gln Ile Gln Thr Pro Ser Ser Leu Ile Pro
1 5 10 15

Pro Gly Met Thr Leu Ile Ser Gln Met Phe Leu His Gly Glu Arg Asn
20 25 30

Asn Gly Gly Phe Asp Leu Ser Asp Ala Leu Pro Asp Asn Glu Asn Lys
35 40 45

Lys Pro Thr Ala Ile Pro Lys Lys Pro Ser Ala Gly Asp Asp Phe Asp
50 55 60

743

Leu Gly Asp Ala Val Val Asp Gly Glu Asn Asp Asp Pro Arg Pro Pro
 65 70 75 80
 Asn Pro Pro Lys Pro Met Pro Asn Pro Asn Pro Asn His Pro Ser Ser
 85 90 95
 Ser Gly Ser Phe Ser Asp Ala Asp Leu Ala Asp Gly Val Ser Gly Gly
 100 105 110
 Glu Gly Lys Gly Gly Ser Asp Gly Gly Gly Ser His Arg Lys Glu Gly
 115 120 125
 Glu Glu Ala Asp Ala Pro Gly Val Ile Pro Gly Ile Val Gly Ala Val
 130 135 140
 Val Val Ala Val Ala Gly Ala Ile Ser Ser Phe Ile Ala Tyr Gln Lys
 145 150 155 160
 Lys Lys Leu Cys Phe Lys Glu Asn Ala Glu Gln Gly Glu Val Asp Met
 165 170 175
 Glu Ser His Arg Asn Ala Asn Ala Glu Pro Ala Val Gln Arg Thr Leu
 180 185 190
 Leu Glu Lys
 195

<210> 718
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 718
 Ser Asp Arg Pro Thr Met Ala Pro Gly Val Ala Arg Gly Pro Thr Pro
 1 5 10 15
 Tyr Trp Arg Leu Arg Leu Gly Gly Ala Ala Leu Leu Leu Leu Leu Ile
 20 25 30
 Pro Val Ala Ala Ala Gln Glu Pro Pro Gly Ala Ala Cys Ser Gln Asn
 35 40 45
 Thr Asn Lys Thr Cys Glu Glu Cys Leu Lys Asn Val Ser Cys Leu Trp
 50 55 60
 Cys Asn Thr Asn Lys Ala Cys Leu Asp Tyr Pro Val Thr Ser Val Leu
 65 70 75 80
 Pro Pro Ala Ser Leu Cys Lys Leu Ser Ser Ala Arg Trp Gly Val Cys

744

	85		90		95
Trp Val Asn Phe Glu Ala Leu Ile Ile Thr Met Ser Val Val Gly Gly					
	100		105		110
Thr Leu Leu Leu Gly Ile Ala Ile Cys Cys Cys Cys Cys Cys Arg Arg					
	115		120		125
Lys Arg Ser Arg Lys Pro Asp Arg Ser Glu Glu Lys Ala Met Arg Glu					
	130		135		140
Arg Glu Glu Arg Arg Ile Arg Gln Glu Glu Arg Arg Ala Glu Met Lys					
	145		150		155
Thr Arg His Asp Glu Ile Arg Lys Lys Tyr Gly Leu Phe Lys Glu Glu					
	165		170		175
Asn Pro Tyr Ala Arg Phe Glu Asn Asn					
	180		185		

<210> 719

<211> 567

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 719

Phe Arg Glu Leu Lys Asn Thr Val Ser Tyr Ser Gly Lys Arg Lys Gly
1 5 10 15

Pro Asp Ser Leu Ser Asp Gly Pro Ala Cys Lys Arg Pro Ala Leu Leu
20 25 30

His Ser Gln Phe Leu Thr Pro Pro Gln Thr Pro Thr Pro Gly Glu Ser
35 40 45

Met Glu Asp Val His Leu Asn Glu Xaa Lys Gln Glu Ser Ser Ala Asp
50 55 60

Leu Leu Gln Asn Ile Ile Asn Ile Lys Asn Glu Cys Ser Pro Val Ser

745

65		70		75		80
Leu Asn Thr Val Xaa Val Ser Trp Leu Asn Pro Val Val Val Pro Gln						
	85		90		95	
Ser Ser Pro Ala Glu Gln Cys Gln Asp Phe His Gly Gly Gln Val Phe						
	100		105		110	
Ser Pro Pro Gln Lys Cys Gln Pro Phe Gln Val Arg Gly Ser Gln Gln						
	115		120		125	
Met Ile Asp Gln Ala Ser Leu Tyr Gln Tyr Ser Pro Gln Asn Gln His						
	130		135		140	
Val Glu Gln Gln Pro His Tyr Thr His Lys Pro Thr Leu Glu Tyr Ser						
	145		150		155	160
Pro Phe Pro Ile Pro Pro Gln Ser Pro Ala Tyr Glu Pro Asn Leu Phe						
	165		170		175	
Asp Gly Pro Glu Ser Gln Phe Cys Pro Asn Gln Ser Leu Val Ser Leu						
	180		185		190	
Leu Gly Asp Gln Arg Glu Ser Glu Asn Ile Ala Asn Pro Met Gln Thr						
	195		200		205	
Ser Ser Ser Val Gln Gln Gln Asn Asp Ala His Leu His Ser Phe Ser						
	210		215		220	
Met Met Pro Ser Ser Ala Cys Glu Ala Met Val Gly His Glu Met Ala						
	225		230		235	240
Ser Asp Ser Ser Asn Thr Ser Leu Pro Phe Ser Asn Met Gly Asn Pro						
	245		250		255	
Met Asn Thr Thr Gln Leu Gly Lys Ser Leu Phe Gln Trp Gln Val Glu						
	260		265		270	
Gln Glu Glu Ser Lys Leu Ala Asn Ile Ser Gln Asp Gln Phe Leu Ser						
	275		280		285	
Lys Asp Ala Asp Gly Asp Thr Phe Leu His Ile Ala Val Ala Gln Gly						
	290		295		300	
Arg Arg Ala Leu Ser Tyr Val Leu Ala Arg Lys Met Asn Ala Leu His						
	305		310		315	320
Met Leu Asp Ile Lys Glu His Asn Gly Gln Ser Ala Phe Gln Val Ala						
	325		330		335	
Val Ala Ala Asn Gln His Leu Ile Val Gln Asp Leu Val Asn Ile Gly						

746

340	345	350
Ala Gln Val Asn Thr Thr Asp Cys Trp Gly Arg Thr Pro Leu His Val		
355	360	365
Cys Ala Glu Lys Gly His Ser Gln Val Leu Gln Ala Ile Gln Lys Gly		
370	375	380
Ala Val Gly Ser Asn Gln Phe Val Asp Leu Glu Ala Thr Asn Tyr Asp		
385	390	400
Gly Leu Thr Pro Leu His Cys Ala Val Ile Ala His Asn Ala Val Val		
405	410	415
His Glu Leu Gln Arg Asn Gln Gln Pro His Ser Pro Glu Val Gln Glu		
420	425	430
Leu Leu Leu Lys Asn Lys Ser Leu Val Asp Thr Ile Lys Cys Leu Ile		
435	440	445
Gln Met Gly Ala Ala Val Glu Ala Lys Asp Arg Lys Ser Gly Arg Thr		
450	455	460
Ala Leu His Leu Ala Ala Glu Glu Ala Asn Leu Glu Leu Ile Arg Leu		
465	470	475
Phe Leu Glu Leu Pro Ser Cys Leu Ser Phe Val Asn Ala Lys Ala Tyr		
485	490	495
Asn Gly Asn Thr Ala Leu His Val Ala Ala Ser Leu Gln Tyr Arg Leu		
500	505	510
Thr Gln Leu Asp Ala Val Arg Leu Leu Met Arg Lys Gly Ala Asp Pro		
515	520	525
Ser Thr Arg Asn Leu Glu Asn Glu Gln Pro Val His Leu Val Pro Asp		
530	535	540
Gly Pro Val Gly Glu Gln Ile Arg Arg Ile Leu Lys Gly Lys Ser Ile		
545	550	555
Gln Gln Arg Ala Pro Pro Tyr		
565		

<210> 720

<211> 299

<212> PRT

<213> Homo sapiens

747

<400> 720

Asp Pro Arg Val Arg Ser His Ser Arg Pro Thr Pro Leu Met Ala Asn
 1 5 10 15

Arg Tyr Thr Met Asp Leu Thr Ala Ile Tyr Glu Ser Leu Leu Ser Leu
 20 25 30

Ser Pro Asp Val Pro Val Pro Ser Asp His Gly Gly Thr Glu Ser Ser
 35 40 45

Pro Gly Trp Gly Ser Ser Gly Pro Trp Ser Leu Ser Pro Ser Asp Ser
 50 55 60

Ser Pro Ser Gly Val Thr Ser Arg Leu Pro Gly Arg Ser Thr Ser Leu
 65 70 75 80

Val Glu Gly Arg Ser Cys Gly Trp Val Pro Pro Pro Gly Phe Ala
 85 90 95

Pro Leu Ala Pro Arg Leu Gly Pro Glu Leu Ser Pro Ser Pro Thr Ser
 100 105 110

Pro Thr Ala Thr Ser Thr Thr Pro Ser Arg Tyr Lys Thr Glu Leu Cys
 115 120 125

Arg Thr Phe Ser Glu Ser Gly Arg Cys Arg Tyr Gly Ala Lys Cys Gln
 130 135 140

Phe Ala His Gly Leu Gly Glu Leu Arg Gln Ala Asn Arg His Pro Lys
 145 150 155 160

Tyr Lys Thr Glu Leu Cys His Lys Phe Tyr Leu Gln Gly Arg Cys Pro
 165 170 175

Thr Ala Leu Ala Ala Thr Ser Ser Thr Thr Leu Ala Lys Thr Trp Arg
 180 185 190

Pro Arg Ala Thr Leu Leu Cys Phe Ala Arg Ala Ser Ala Ser Pro Ala
 195 200 205

Cys Pro Leu Ala Ala Gly Pro His His His His Gln Ala Trp Pro Ala
 210 215 220

Leu Pro Cys Pro Pro Ala Pro Ser Arg Pro Pro Ala Pro His His His
 225 230 235 240

Leu Gly Thr Phe His Cys His Pro Leu Pro Ser Leu Leu Pro Leu Ala
 245 250 255

Pro Pro Trp Leu Glu Glu Thr Pro Pro Gln Ser Val Ala Pro Pro Ala
 260 265 270

Glu Gly His Ser Tyr Gln Arg Leu Gly Ala Leu Gly Trp Pro Gly Ser
 275 280 285

Asp Pro Leu Cys Thr Val Pro Gly Ile Arg Pro
 290 295

<210> 721

<211> 305

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 721

Arg Ser Gln Leu Leu Ala Leu Ala Cys Leu Pro Ala Pro Leu Leu Ala
 1 5 10 15

Arg Ala Phe Ala Arg Pro Leu Leu Glu Asp Arg Gly Asp Ser Asp His
 20 25 30

Ser Leu Trp Leu Gly Arg Glu Thr Glu Ala Ala Ala Ala Gln Gly Lys
 35 40 45

Arg Gly Cys Ser Gly Gly Ser Arg Lys Met Ser Gly Glu Asp Glu Gln
 50 55 60

Gln Glu Gln Thr Ile Ala Glu Asp Leu Val Val Thr Lys Tyr Lys Met
 65 70 75 80

Gly Gly Asp Ile Ala Asn Arg Val Leu Arg Ser Leu Val Glu Ala Ser
 85 90 95

Ser Ser Gly Val Ser Val Leu Ser Leu Cys Glu Lys Gly Asp Ala Met
 100 105 110

Ile Met Glu Glu Thr Gly Lys Ile Phe Lys Lys Glu Lys Glu Met Lys
 115 120 125

Lys Gly Ile Ala Phe Pro Thr Ser Ile Ser Val Asn Asn Cys Val Cys
 130 135 140

His Phe Ser Pro Leu Lys Ser Asp Gln Asp Tyr Ile Leu Lys Glu Gly
 145 150 155 160

Asp Leu Val Lys Ile Asp Leu Gly Val His Val Asp Gly Phe Ile Ala

749

	165		170		175
Asn Val Ala His Thr Phe Val Val Asp Val Ala Gln Gly Thr Gln Val					
180		185		190	
Thr Gly Arg Lys Ala Asp Val Ile Lys Ala Ala His Leu Cys Ala Glu					
195		200		205	
Ala Ala Leu Arg Leu Val Lys Pro Gly Asn Gln Asn Thr Gln Val Thr					
210		215		220	
Glu Ala Trp Asn Lys Val Ala His Ser Phe Asn Cys Thr Pro Ile Glu					
225		230		235	240
Gly Met Leu Ser His Gln Leu Lys Gln His Val Ile Asp Gly Glu Lys					
	245		250		255
Thr Ile Ile Gln Asn Pro Thr Asp Gln Gln Lys Lys Asp His Glu Lys					
	260		265		270
Ala Glu Phe Glu Val His Glu Val Tyr Ala Val Asp Val Leu Val Ser					
	275		280		285
Ser Gly Glu Gly Lys Val Arg Arg Val Pro Xaa Leu Ala Lys Arg Gly					
290		295		300	

Asp
305

<210> 722
 <211> 394
 <212> PRT
 <213> Homo sapiens

<400> 722

Ala His Ala Ser Ala Ala Thr Thr Ser Ala Ala Asp Arg Gly Glu Met					
1		5		10	15
Ala Ala Thr Glu Gly Val Gly Glu Ala Ala Gln Gly Gly Glu Pro Gly					
	20		25		30
Gln Pro Ala Gln Pro Pro Pro Gln Pro His Pro Pro Pro Pro Gln Gln					
	35		40		45
Gln His Lys Glu Glu Met Ala Ala Glu Ala Gly Glu Ala Val Ala Ser					
	50		55		60
Pro Met Asp Asp Gly Phe Val Ser Leu Asp Ser Pro Ser Tyr Val Leu					
	65		70		75
					80

750

Tyr Arg Asp Arg Ala Glu Trp Ala Asp Ile Asp Pro Val Pro Gln Asn
 85 90 95

Asp Gly Pro Asn Pro Val Val Gln Ile Ile Tyr Ser Asp Lys Phe Arg
 100 105 110

Asp Val Tyr Asp Tyr Phe Arg Ala Val Leu Gln Arg Asp Glu Arg Ser
 115 120 125

Glu Arg Ala Phe Lys Leu Thr Arg Asp Ala Ile Glu Leu Asn Ala Ala
 130 135 140

Asn Tyr Thr Val Trp His Phe Arg Arg Val Leu Leu Lys Ser Leu Gln
 145 150 155 160

Lys Asp Leu His Glu Glu Met Asn Tyr Ile Thr Ala Ile Ile Glu Glu
 165 170 175

Gln Pro Lys Asn Tyr Gln Val Trp His His Arg Arg Val Leu Val Glu
 180 185 190

Trp Leu Arg Asp Pro Ser Gln Glu Leu Glu Phe Ile Ala Asp Ile Leu
 195 200 205

Asn Gln Asp Ala Lys Asn Tyr His Ala Trp Gln His Arg Gln Trp Val
 210 215 220

Ile Gln Glu Phe Lys Leu Trp Asp Asn Glu Leu Gln Tyr Val Asp Gln
 225 230 235 240

Leu Leu Lys Glu Asp Val Arg Asn Asn Ser Val Trp Asn Gln Arg Tyr
 245 250 255

Phe Val Ile Ser Asn Thr Thr Gly Tyr Asn Asp Arg Ala Val Leu Glu
 260 265 270

Arg Glu Val Gln Tyr Thr Leu Glu Met Ile Lys Leu Val Pro His Asn
 275 280 285

Glu Ser Ala Trp Asn Tyr Leu Lys Gly Ile Leu Gln Asp Arg Gly Leu
 290 295 300

Ser Lys Tyr Pro Asn Leu Leu Asn Gln Leu Leu Asp Leu Gln Pro Ser
 305 310 315 320

His Ser Ser Pro Tyr Leu Ile Ala Phe Leu Val Asp Ile Tyr Glu Asp
 325 330 335

Met Leu Glu Asn Gln Cys Asp Asn Lys Glu Asp Ile Leu Asn Lys Ala
 340 345 350

751

Leu Glu Leu Cys Glu Ile Leu Ala Lys Glu Lys Asp Thr Ile Arg Lys
 355 360 365

Glu Tyr Trp Arg Tyr Ile Gly Arg Ser Leu Gln Ser Lys His Ser Thr
 370 375 380

Glu Asn Asp Ser Pro Thr Asn Val Gln Gln
 385 390

<210> 723

<211> 337

<212> PRT

<213> Homo sapiens

<400> 723

Lys Thr Pro Lys Lys Ser Arg Val Arg Phe Ser Asn Ile Met Glu Ile
 1 5 10 15

Arg Gln Leu Pro Ser Ser His Ala Leu Glu Ala Lys Leu Ser Arg Met
 20 25 30

Ser Tyr Pro Val Lys Glu Gln Glu Ser Ile Leu Lys Thr Val Gly Lys
 35 40 45

Leu Thr Ala Thr Gln Val Ala Lys Ile Ser Phe Phe Phe Cys Phe Val
 50 55 60

Trp Phe Leu Ala Asn Leu Ser Tyr Gln Glu Ala Leu Ser Asp Thr Gln
 65 70 75 80

Val Ala Ile Val Asn Ile Leu Ser Ser Thr Ser Gly Leu Phe Thr Leu
 85 90 95

Ile Leu Ala Ala Val Phe Pro Ser Asn Ser Gly Asp Arg Phe Thr Leu
 100 105 110

Ser Lys Leu Leu Ala Val Ile Leu Ser Ile Gly Gly Val Val Leu Val
 115 120 125

Asn Leu Ala Gly Ser Glu Lys Pro Ala Gly Arg Asp Thr Val Gly Ser
 130 135 140

Ile Trp Ser Leu Ala Gly Ala Met Leu Tyr Ala Val Tyr Ile Val Met
 145 150 155 160

Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met Phe
 165 170 175

752

Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly Phe
 180 185 190

Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn Lys
 195 200 205

Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val Leu
 210 215 220

Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu Ile
 225 230 235 240

Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala Asp
 245 250 255

Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly Ala
 260 265 270

Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His Tyr
 275 280 285

Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala Phe
 290 295 300

Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu Gln
 305 310 315 320

Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly Ala
 325 330 335

Ser

<210> 724

<211> 665

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 724

753

Ala Pro Leu Asp Gly Gly Ala Ala Ala Ala Ser Val Ala Ser Ser Ile
 1 5 10 15
 Arg Gln Glu Ala Ser Ala Met Gln Ala Pro Arg Glu Leu Ala Val Gly
 20 25 30
 Ile Asp Leu Gly Thr Thr Tyr Ser Cys Val Gly Val Phe Gln Gln Gly
 35 40 45
 Arg Val Glu Ile Leu Ala Asn Asp Gln Gly Asn Arg Thr Thr Pro Ser
 50 55 60
 Tyr Val Ala Phe Thr Asp Thr Glu Arg Leu Val Gly Asp Ala Ala Lys
 65 70 75 80
 Ser Gln Ala Ala Leu Asn Pro His Asn Thr Val Phe Asp Ala Lys Arg
 85 90 95
 Leu Ile Gly Arg Lys Phe Ala Asp Thr Thr Val Gln Ser Asp Met Lys
 100 105 110
 His Trp Pro Phe Arg Val Val Ser Glu Gly Gly Lys Pro Lys Val Arg
 115 120 125
 Val Cys Tyr Arg Gly Glu Asp Lys Thr Phe Tyr Pro Glu Glu Ile Ser
 130 135 140
 Ser Met Val Leu Ser Lys Met Lys Glu Thr Ala Glu Ala Tyr Leu Gly
 145 150 155 160
 Gln Pro Val Lys His Ala Val Ile Thr Val Pro Ala Tyr Phe Asn Asp
 165 170 175
 Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Ala Ile Ala Gly Leu Asn
 180 185 190
 Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala Ile Ala Tyr Gly
 195 200 205
 Leu Asp Arg Arg Gly Ala Gly Xaa Arg Asn Val Leu Ile Phe Asp Leu
 210 215 220
 Gly Gly Gly Thr Phe Asp Val Ser Val Leu Ser Ile Asp Ala Gly Val
 225 230 235 240
 Phe Glu Val Lys Ala Thr Ala Gly Asp Thr His Leu Gly Gly Glu Asp
 245 250 255
 Phe Asp Asn Arg Leu Val Asn His Phe Met Glu Glu Phe Arg Arg Lys
 260 265 270

754

His Gly Lys Asp Leu Ser Gly Asn Lys Arg Ala Leu Arg Arg Leu Arg
 275 280 285

Thr Ala Cys Glu Arg Ala Lys Arg Thr Xaa Ser Ser Ser Thr Gln Ala
 290 295 300

Thr Leu Glu Ile Asp Ser Leu Phe Glu Gly Val Asp Phe Tyr Thr Ser
 305 310 315 320

Ile Thr Arg Ala Arg Phe Glu Glu Leu Cys Ser Asp Leu Phe Arg Ser
 325 330 335

Thr Leu Glu Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys
 340 345 350

Ala Gln Ile His Asp Val Val Leu Val Gly Gly Ser Thr Arg Ile Pro
 355 360 365

Lys Val Gln Lys Leu Leu Gln Asp Phe Phe Asn Gly Lys Glu Leu Asn
 370 375 380

Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala Ala Val Gln
 385 390 395 400

Ala Ala Val Leu Met Gly Asp Lys Cys Glu Lys Val Gln Asp Leu Leu
 405 410 415

Leu Leu Asp Val Ala Pro Leu Ser Leu Gly Leu Glu Thr Ala Gly Gly
 420 425 430

Val Met Thr Thr Leu Ile Gln Arg Asn Ala Thr Ile Pro Thr Lys Gln
 435 440 445

Thr Gln Thr Phe Thr Thr Tyr Ser Asp Asn Gln Pro Gly Val Phe Ile
 450 455 460

Gln Val Tyr Glu Gly Glu Arg Ala Met Thr Lys Asp Asn Asn Leu Leu
 465 470 475 480

Gly Arg Phe Glu Leu Ser Gly Ile Pro Pro Ala Pro Arg Gly Val Pro
 485 490 495

Gln Ile Glu Val Thr Phe Asp Ile Asp Ala Asn Gly Ile Leu Ser Val
 500 505 510

Thr Ala Thr Asp Arg Ser Thr Gly Lys Ala Asn Lys Ile Thr Ile Thr
 515 520 525

Asn Asp Lys Gly Arg Leu Ser Lys Glu Glu Val Glu Arg Met Val His
 530 535 540

755

Glu Ala Glu Gln Tyr Lys Ala Glu Asp Glu Ala Gln Arg Asp Arg Val
 545 550 555 560

Ala Ala Lys Asn Ser Leu Glu Ala His Val Phe His Val Lys Gly Ser
 565 570 575

Leu Gln Glu Glu Ser Leu Arg Asp Lys Ile Pro Glu Glu Asp Arg Arg
 580 585 590

Lys Met Gln Asp Lys Cys Arg Glu Val Leu Ala Trp Leu Glu His Asn
 595 600 605

Gln Leu Ala Glu Lys Glu Glu Tyr Glu His Gln Lys Arg Glu Leu Glu
 610 615 620

Gln Ile Cys Arg Pro Ile Phe Ser Arg Leu Tyr Gly Gly Pro Gly Val
 625 630 635 640

Pro Gly Gly Ser Ser Cys Gly Thr Gln Ala Arg Gln Gly Asp Pro Ser
 645 650 655

Thr Gly Pro Ile Ile Glu Glu Val Asp
 660 665

<210> 725

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 725

Ala Arg Phe Ile Lys Leu Ile Phe Phe Ile Leu Val Val Lys Ser Ser
 1 5 10 15

Leu Ile Ala Phe Cys Gln Leu Asp Phe Xaa Val Cys Val Ile Phe Lys
 20 25 30

Gly Arg Met Thr Gly Gln Ile Ser Asn Lys Lys Cys Ile Glu Leu Glu
 35 40 45

Asn Ile Val Val Pro Ser Tyr Pro Trp Asp Ile Arg Ser Lys Thr Pro
 50 55 60

Ser Glu Arg Leu Lys Pro Trp Ile Val
 65 70

756

<210> 726
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 726
 Thr Ala Ser Trp Ser Pro Ala Pro Val Pro Ser Ser Leu Glu Arg Leu
 1 5 10 15
 Phe Ser Pro Asp Gly Thr Phe Pro Ser Arg Arg Phe Leu Gly Leu Trp
 20 25 30
 Leu Phe Phe Ser Cys Ala Arg Leu Ile Gly His Leu Leu Ala Ser Ile
 35 40 45
 Ser Val Val Leu Leu Pro His Phe Leu Phe Cys Cys Phe Ser Val Leu
 50 55 60
 Ser Lys Tyr Leu Leu Cys Ser Trp Leu Pro Phe Arg Arg Gln Val Phe
 65 70 75 80
 Ser Phe Pro Leu Ala Leu Leu Leu Ile Trp Leu Leu Pro Thr Lys Ala
 85 90 95
 Cys Ser Val Arg Ile Ser Trp Phe Ser Thr Cys Gln Asn Leu Leu Gln
 100 105 110
 Pro Gln Phe Leu Gly Leu Asn Leu Tyr Val
 115 120

<210> 727
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 727
 Gly Thr Thr Thr Arg Asp Phe Thr Gln Leu Asn Glu Leu Gln Cys Arg
 1 5 10 15
 Phe Pro Arg Arg Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly
 20 25 30
 His Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr
 35 40 45
 Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys

757

50 55 60
 Cys Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys
 65 70 75 80
 Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp
 85 90 95
 Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp
 100 105 110
 Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg
 115 120 125
 Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg
 130 135 140
 Leu Leu Lys Val Ala Ile
 145 150

<210> 728
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 728
 Arg Ala Gly His Pro Leu His Pro Arg Glu Ala Pro Pro Ala Ala Arg
 1 5 10 15
 Ser His Thr Pro Lys Pro Leu Leu Met Val His Gly Trp Pro Gly Ser
 20 25 30
 Phe Tyr Glu Phe Tyr Lys Ile Ile Pro Leu Leu Thr Asp Pro Lys Asn
 35 40 45
 His Gly Leu Ser Asp Glu His Val Phe Glu Val Ile Cys Pro Ser Ile
 50 55 60
 Pro Gly Tyr Gly Phe Ser Glu Ala Ser Ser Lys Lys Gly Phe Asn Ser
 65 70 75 80
 Val Ala Thr Ala Arg Ile Phe Tyr Lys Leu Met Leu Arg Leu Gly Phe
 85 90 95
 Gln Glu Phe Tyr Ile Gln Gly Gly Asp Trp Gly Ser Leu Ile Cys Thr
 100 105 110
 Asn Met Ala Gln Leu Val Pro Ser His Val Lys Gly Leu His Leu Asn
 115 120 125

758

Met Ala Leu Val Leu Ser Asn Phe Ser Thr Leu Thr Leu Leu Leu Gly
 130 135 140

Gln Arg Phe Gly Arg Phe Leu Gly Leu Thr Glu Arg Asp Val Glu Leu
 145 150 155 160

Leu Tyr Pro Val Lys Glu Lys Val Phe Tyr Ser Leu Met Arg Glu Ser
 165 170 175

Gly Tyr Met His Ile Gln Cys Thr Lys Pro Asp Thr Val Ala Leu Leu
 180 185 190

<210> 729

<211> 466

<212> PRT

<213> Homo sapiens

<400> 729

Glu His Gln Glu Ile Met Asn Asn Phe Gly Asn Glu Glu Phe Asp Cys
 1 5 10 15

His Phe Leu Asp Glu Gly Phe Thr Ala Lys Asp Ile Leu Asp Gln Lys
 20 25 30

Ile Asn Glu Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala
 35 40 45

Asp Leu Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu
 50 55 60

Pro Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
 65 70 75 80

Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala Ser
 85 90 95

Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro Glu Arg
 100 105 110

Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile Lys Tyr Ala
 115 120 125

Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser Glu Val Glu Leu
 130 135 140

759

Met Lys Val Ala Arg Ala His Pro Lys Ala Lys Leu Val Leu Arg Ile
 145 150 155 160

Ala Thr Asp Asp Ser Lys Ala Val Cys Arg Leu Ser Val Lys Phe Gly
 165 170 175

Ala Thr Leu Arg Thr Ser Arg Leu Leu Leu Glu Arg Ala Lys Glu Leu
 180 185 190

Asn Ile Asp Val Val Gly Val Ser Phe His Val Gly Ser Gly Cys Thr
 195 200 205

Asp Pro Glu Thr Phe Val Gln Ala Ile Ser Asp Ala Arg Cys Val Phe
 210 215 220

Asp Met Gly Ala Glu Val Gly Phe Ser Met Tyr Leu Leu Asp Ile Gly
 225 230 235 240

Gly Gly Phe Pro Gly Ser Glu Asp Val Lys Leu Lys Phe Glu Glu Ile
 245 250 255

Thr Gly Val Ile Asn Pro Ala Leu Asp Lys Tyr Phe Pro Ser Asp Ser
 260 265 270

Gly Val Arg Ile Ile Ala Glu Pro Gly Arg Tyr Tyr Val Ala Ser Ala
 275 280 285

Phe Thr Leu Ala Val Asn Ile Ile Ala Lys Lys Ile Val Leu Lys Glu
 290 295 300

Gln Thr Gly Ser Asp Asp Glu Asp Glu Ser Ser Glu Gln Thr Phe Met
 305 310 315 320

Tyr Tyr Val Asn Asp Gly Val Tyr Gly Ser Phe Asn Cys Ile Leu Tyr
 325 330 335

Asp His Ala His Val Lys Pro Leu Leu Gln Lys Arg Pro Lys Pro Asp
 340 345 350

Glu Lys Tyr Tyr Ser Ser Ser Ile Trp Gly Pro Thr Cys Asp Gly Leu
 355 360 365

Asp Arg Ile Val Glu Arg Cys Asp Leu Pro Glu Met His Val Gly Asp
 370 375 380

Trp Met Leu Phe Glu Asn Met Gly Ala Tyr Thr Val Ala Ala Ala Ser
 385 390 395 400

Thr Phe Asn Gly Phe Gln Arg Pro Thr Ile Tyr Tyr Val Met Ser Gly
 405 410 415

760

Pro Ala Trp Gln Leu Met Gln Gln Phe Gln Asn Pro Asp Phe Pro Pro
 420 425 430

Glu Val Glu Glu Gln Asp Ala Ser Thr Leu Pro Val Ser Cys Ala Trp
 435 440 445

Glu Ser Gly Met Lys Arg His Arg Ala Ala Cys Ala Ser Ala Ser Ile
 450 455 460

Asn Val
 465

<210> 730

<211> 66

<212> PRT

<213> Homo sapiens

<400> 730

Trp Cys Leu Lys Val His Cys Asn Trp Gly Ala Leu Glu Thr Ala Cys
 1 5 10 15

Ser His Thr Thr Asp Gly Ser Leu Asp Thr Ser Ser Leu Gln Ala Arg
 20 25 30

Gln Ile Asn Ile His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe
 35 40 45

Arg Met Asn Lys Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln
 50 55 60

Gln Phe
 65

<210> 731

<211> 208

<212> PRT

<213> Homo sapiens

<400> 731

Val Val Ala Met Ala Gln Val Leu Arg Gly Thr Val Thr Asp Phe Pro
 1 5 10 15

Gly Phe Asp Glu Arg Ala Asp Ala Glu Thr Leu Arg Lys Ala Met Lys
 20 25 30

Gly Leu Gly Thr Asp Glu Glu Ser Ile Leu Thr Leu Leu Thr Ser Arg
 35 40 45

761

Ser Asn Ala Gln Arg Gln Glu Ile Ser Ala Ala Phe Lys Thr Leu Phe
 50 55 60

Gly Arg Asp Leu Leu Asp Asp Leu Lys Ser Glu Leu Thr Gly Lys Phe
 65 70 75 80

Glu Lys Leu Ile Val Ala Leu Met Lys Pro Ser Arg Leu Tyr Asp Ala
 85 90 95

Tyr Glu Leu Lys His Ala Leu Lys Gly Ala Gly Thr Asn Glu Lys Val
 100 105 110

Leu Thr Glu Ile Ile Ala Ser Arg Thr Pro Glu Glu Leu Arg Ala Ile
 115 120 125

Lys Gln Val Tyr Glu Glu Glu Tyr Gly Ser Ser Leu Glu Asp Asp Val
 130 135 140

Val Gly Asp Thr Ser Gly Tyr Tyr Gln Arg Met Leu Val Val Leu Leu
 145 150 155 160

Gln Ala Asn Arg Asp Pro Asp Ala Gly Ile Asp Glu Ala Gln Val Glu
 165 170 175

Gln Asp Ala Gln Ala Leu Phe Gln Ala Gly Glu Leu Lys Trp Gly Thr
 180 185 190

Asp Glu Glu Lys Phe Ile Thr Ile Phe Gly Thr Arg Ser Val Leu Ile
 195 200 205

<210> 732

<211> 421

<212> PRT

<213> Homo sapiens

<400> 732

Val Gly Asp Cys Cys Val Pro Tyr Leu Asp Pro Glu Gly Thr Ser Leu
 1 5 10 15

Leu Gly Trp Leu Ser Val Ser Leu Leu Ser Ser Gly Glu Ile Thr Ala
 20 25 30

Ser Ser Ala Pro Arg Met Glu Pro Pro Gly Arg Arg Glu Cys Pro Phe
 35 40 45

762

Pro Ser Trp Arg Phe Pro Gly Leu Leu Leu Ala Ala Met Val Leu Leu
 50 55 60

Leu Tyr Ser Phe Ser Asp Ala Cys Glu Glu Pro Pro Thr Phe Glu Ala
 65 70 75 80

Met Glu Leu Ile Gly Lys Pro Lys Pro Tyr Tyr Glu Ile Gly Glu Arg
 85 90 95

Val Asp Tyr Lys Cys Lys Lys Gly Tyr Phe Tyr Ile Pro Pro Leu Ala
 100 105 110

Thr His Thr Ile Cys Asp Arg Asn His Thr Trp Leu Pro Val Ser Asp
 115 120 125

Asp Ala Cys Tyr Arg Glu Thr Cys Pro Tyr Ile Arg Asp Pro Leu Asn
 130 135 140

Gly Gln Ala Val Pro Ala Asn Gly Thr Tyr Glu Phe Gly Tyr Gln Met
 145 150 155 160

His Phe Ile Cys Asn Glu Gly Tyr Tyr Leu Ile Gly Glu Glu Ile Leu
 165 170 175

Tyr Cys Glu Leu Lys Gly Ser Val Ala Ile Trp Ser Gly Lys Pro Pro
 180 185 190

Ile Cys Glu Lys Val Leu Cys Thr Pro Pro Pro Lys Ile Lys Asn Gly
 195 200 205

Lys His Thr Phe Ser Glu Val Glu Val Phe Glu Tyr Leu Asp Ala Val
 210 215 220

Thr Tyr Ser Cys Asp Pro Ala Pro Gly Pro Asp Pro Phe Ser Leu Ile
 225 230 235 240

Gly Glu Ser Thr Ile Tyr Cys Gly Asp Asn Ser Val Trp Ser Arg Ala
 245 250 255

Ala Pro Glu Cys Lys Val Val Lys Cys Arg Phe Pro Val Val Glu Asn
 260 265 270

Gly Lys Gln Ile Ser Gly Phe Gly Lys Lys Phe Tyr Tyr Lys Ala Thr
 275 280 285

Val Met Phe Glu Cys Asp Lys Gly Phe Tyr Leu Asp Gly Ser Asp Thr
 290 295 300

Ile Val Cys Asp Ser Asn Ser Thr Trp Asp Pro Pro Val Pro Lys Cys
 305 310 315 320

763

Leu Lys Val Ser Thr Ser Ser Thr Thr Lys Ser Pro Ala Ser Ser Ala
 325 330 335

Ser Gly Pro Arg Pro Thr Tyr Lys Pro Pro Val Ser Asn Tyr Pro Gly
 340 345 350

Tyr Pro Lys Pro Glu Glu Gly Ile Leu Asp Ser Leu Asp Val Trp Val
 355 360 365

Ile Ala Val Ile Val Ile Ala Ile Val Val Gly Val Ala Val Ile Cys
 370 375 380

Val Val Pro Tyr Arg Tyr Leu Gln Arg Arg Lys Lys Lys Gly Lys Ala
 385 390 395 400

Asp Gly Gly Ala Glu Tyr Ala Thr Tyr Gln Thr Lys Ser Thr Thr Pro
 405 410 415

Ala Glu Gln Arg Gly
 420

<210> 733

<211> 105

<212> PRT

<213> Homo sapiens

<400> 733

Asp Ser Met Cys Pro Ala Ser Thr Pro Ser Val Leu Ser Ser Glu Gln
 1 5 10 15

Glu Phe Gln Met Phe Pro Lys Ser Arg Leu Ser Ser Val Ser Val Thr
 20 25 30

Tyr Cys Ser Val Ser Gln Asp Phe Pro Gly Ser Asn Leu Asn Leu Leu
 35 40 45

Thr Asn Asn Ser Gly Thr Glu Trp Glu Ala His Pro Asp Gln Leu Leu
 50 55 60

Arg Gly Pro Arg Lys Gly Arg Ile Glu Asn Val Gln Glu Ser Gly Gln
 65 70 75 80

Glu Ala Val Ala Leu Leu His Pro Lys Pro Arg Leu Leu Thr Arg Leu
 85 90 95

Pro Pro Leu Trp Gln Gln Arg His Ser
 100 105

764

<210> 734

<211> 76

<212> PRT

<213> Homo sapiens

<400> 734

Tyr Pro Ser Val Thr Ser Gly Thr Phe Arg Arg Lys Pro Asn Ser Ser
 1 5 10 15

Val Trp Cys Thr Arg Ser Ser Asp Val Phe Pro Pro Pro Asn Val Leu
 20 25 30

Val Lys Gln Thr Tyr Thr Ser Ser Glu Ala Thr Phe Gly Gln Ala Ser
 35 40 45

Arg Leu Gly Lys Cys Cys Thr Leu Cys Ile Lys Cys Ala Ser His Pro
 50 55 60

Ser Pro Leu Gly Lys Phe Leu Cys Ile Leu Gln Ala
 65 70 75

<210> 735

<211> 72

<212> PRT

<213> Homo sapiens

<400> 735

Asn Thr Ser Ile Asp Phe Ile Arg Val Phe Cys Gln Ser Arg Leu Phe
 1 5 10 15

Ser Asp Ser Ser Pro Pro Phe Leu Arg Thr Leu Asn Asn Ala Val Val
 20 25 30

Leu Ala Leu Ser Arg Lys Glu Lys Val Lys Pro Leu Phe Gly Gly Asn
 35 40 45

Ile Gly Leu Asn Ser Asp Cys Pro Phe Leu Ala Gly Pro Leu Thr Asn
 50 55 60

His Pro Ile Phe Phe Val Phe Leu
 65 70

<210> 736

<211> 412

<212> PRT

<213> Homo sapiens

765

<400> 736

```

Pro Ala Ala Met Leu Arg Ala Ala Ala Arg Phe Gly Pro Arg Leu Gly
 1           5           10           15

Arg Arg Leu Leu Ser Ala Ala Ala Thr Gln Ala Val Pro Ala Pro Asn
      20           25           30

Gln Gln Pro Glu Val Phe Cys Asn Gln Ile Phe Ile Asn Asn Glu Trp
      35           40           45

His Asp Ala Val Ser Arg Lys Thr Phe Pro Thr Val Asn Pro Ser Thr
      50           55           60

Gly Glu Val Ile Cys Gln Val Ala Glu Gly Asp Lys Glu Asp Val Asp
 65           70           75           80

Lys Ala Val Lys Ala Ala Arg Ala Ala Phe Gln Leu Gly Ser Pro Trp
      85           90           95

Arg Arg Met Asp Ala Ser His Arg Gly Arg Leu Leu Asn Arg Leu Ala
      100          105          110

Asp Leu Ile Glu Arg Asp Arg Thr Tyr Leu Ala Ala Leu Glu Thr Leu
      115          120          125

Asp Asn Gly Lys Pro Tyr Val Ile Ser Tyr Leu Val Asp Leu Asp Met
      130          135          140

Val Leu Lys Cys Leu Arg Tyr Tyr Ala Gly Trp Ala Asp Lys Tyr His
      145          150          155          160

Gly Lys Thr Ile Pro Ile Asp Gly Asp Phe Phe Ser Tyr Thr Arg His
      165          170          175

Glu Pro Val Gly Val Cys Gly Gln Ile Ile Pro Trp Asn Phe Pro Leu
      180          185          190

Leu Met Gln Ala Trp Lys Leu Gly Pro Ala Leu Ala Thr Gly Asn Val
      195          200          205

Val Val Met Lys Val Ala Glu Gln Thr Pro Leu Thr Ala Leu Tyr Val
      210          215          220

Ala Asn Leu Ile Lys Glu Ala Gly Phe Pro Pro Gly Val Val Asn Ile
      225          230          235          240

Val Pro Gly Phe Gly Pro Thr Ala Gly Ala Ala Ile Ala Ser His Glu
      245          250          255

Asp Val Asp Lys Val Ala Phe Thr Gly Ser Thr Glu Ile Gly Arg Val

```

260 265 270

Ser Ser Pro Leu Cys Leu Glu Met Cys Arg Met Ala
405 410

```
<210> 737
<211> 275
<212> PRT
<213> Homo sapiens
```

```

<400> 737
Val Gly Leu Ser Val Leu Arg Asn Leu Val Leu Ile Thr Val Phe Ala
  1             5             10             15
Val Leu Ser Trp Phe Leu Leu Val Leu Thr Val Cys Phe Leu Leu Lys
          20             25             30
Ala Cys Arg Ala Ser Leu Pro Cys Ser Val Gly Val Trp Gln Val Thr
          35             40             45
Asp Gly Glu Asp Ser Cys His Arg Ile Ser Asn Thr Ile Val Phe Leu
          50             55             60
His Val Leu Ser Trp Gly Cys Gly Gln Val Gly Val Gly Lys Glu Glu
  65             70             75             80

```

767

Ala Leu Arg Ser Gly Gly Phe Phe Phe Ser Ser Pro Tyr Pro Val Ser
85 90 95

Leu Pro Val Phe Leu Pro Leu Arg Gln Ala Gln Ser Val Phe Pro Gly
100 105 110

Ala Gln Arg Ser Pro Arg Leu Leu Pro Arg Thr Pro Pro Arg Ala Glu
115 120 125

Pro Ser Ala Glu Val Leu Ala Trp Ser Thr Leu Ile Pro Arg Phe Phe
130 135 140

Ser Lys Thr Arg Pro Val Pro Phe Ser Thr Ala Ala Ser Gln Gln Arg
145 150 155 160

Ala Pro Gly Ser Pro Arg Ser Gln Leu Trp Leu Trp Thr Thr Trp Leu
165 170 175

Arg Pro Leu Gly Leu Gln Ser Leu His Trp Val Tyr Leu Gly Leu Ile
180 185 190

His Ser Trp Ser Gln Gly Trp Gly Phe Thr Cys Glu His Gln Thr Asp
195 200 205

Leu Leu Ala Ser Arg Ala Val Asp Ser Leu Met Lys Ala Leu Val Arg
210 215 220

Arg Lys His Ser Val Leu Arg Leu Leu Cys Asn Arg Phe Val Ile Met
225 230 235 240

Ser His Glu Lys Ser Asn Glu Leu Val Leu Leu Ile Val Thr Val Met
245 250 255

Arg Ser Leu Thr Tyr Asn Ile Ala Val Val Ala Ala Trp Phe Asn Gly
260 265 270

Cys Ile Arg
275

<210> 738

<211> 186

<212> PRT

<213> Homo sapiens

<400> 738

Lys Asp Trp Lys Asn Thr Val Thr Asp Glu Glu Gln Thr Asn Val Pro
1 5 10 15

768

Tyr Ile Tyr Ala Ile Gly Asp Ile Leu Glu Asp Lys Val Glu Leu Thr
 20 25 30
 Pro Val Ala Ile Gln Ala Gly Arg Leu Leu Ala Gln Arg Leu Tyr Ala
 35 40 45
 Gly Ser Thr Val Lys Cys Asp Tyr Glu Asn Val Pro Thr Thr Val Phe
 50 55 60
 Thr Pro Leu Glu Tyr Gly Ala Cys Gly Leu Ser Glu Glu Lys Ala Val
 65 70 75 80
 Glu Lys Phe Gly Glu Glu Asn Ile Glu Val Tyr His Ser Tyr Phe Trp
 85 90 95
 Pro Leu Glu Trp Thr Ile Pro Ser Arg Asp Asn Asn Lys Cys Tyr Ala
 100 105 110
 Lys Ile Ile Cys Asn Thr Lys Asp Asn Glu Arg Val Val Gly Phe His
 115 120 125
 Val Leu Gly Pro Asn Ala Gly Glu Val Thr Gln Gly Phe Ala Ala Ala
 130 135 140
 Leu Lys Cys Gly Leu Thr Lys Lys Gln Leu Asp Ser Thr Ile Gly Ile
 145 150 155 160
 His Pro Val Cys Ala Glu Val Phe Thr Thr Leu Ser Val Thr Lys Arg
 165 170 175
 Ser Gly Ala Ser Ile Leu Gln Ala Gly Cys
 180 185

<210> 739

<211> 158

<212> PRT

<213> Homo sapiens

<400> 739

Lys Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1 5 10 15
 Val Arg Thr Val Leu Cys Glu Leu Ile Asn Ala Leu Tyr Pro Glu Gly
 20 25 30
 Gln Ala Pro Val Lys Lys Ile Gln Ala Ser Thr Met Ala Phe Lys Gln
 35 40 45
 Met Glu Gln Ile Ser Gln Phe Leu Gln Ala Ala Glu Arg Tyr Gly Ile

769

50	55	60
Asn Thr Thr Asp Ile Phe Gln Thr Val Asp Leu Trp Glu Gly Lys Asn		
65	70	75 80
Met Ala Cys Val Gln Arg Thr Leu Met Asn Leu Gly Gly Leu Ala Val		
	85	90 95
Ala Arg Asp Asp Gly Leu Phe Ser Gly Asp Pro Asn Trp Phe Pro Lys		
	100	105 110
Lys Ser Lys Glu Asn Pro Arg Asn Phe Ser Asp Asn Gln Leu Gln Glu		
	115	120 125
Gly Lys Asn Val Ile Gly Leu Gln Met Gly Thr Asn Arg Gly Ala Ser		
	130	135 140
Gln Ala Gly Met Thr Gly Tyr Gly Met Pro Arg Gln Ile Leu		
145	150	155

<210> 740
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 740
Asp Gln Glu Gly Glu Asn Pro Thr Thr Trp Lys Asp Phe Cys Phe His
1 5 10 15
Cys Leu Tyr Asp Val Ser His Ser Tyr Thr Tyr Lys Ser Leu Thr Arg
20 25 30
Gly Pro Leu Asn Cys Leu Val Phe Cys Glu Lys Gln Ile Phe Thr
35 40 45

<210> 741
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 741
Ala Gly Asp Ala Arg Cys Pro Pro Thr Pro Ala Pro Trp Pro Tyr Pro
1 5 10 15
His Leu His Pro His Pro Arg Ile Ala Ile Phe Arg Gly Gly Leu Gly
20 25 30

770

Gly Gly Val Arg Cys Phe Arg Ala Thr Glu Leu Lys His Lys Asp Pro
 35 40 45
 Ser Pro Ala His Pro Ala Gln Pro Gln Leu Thr Ser Met Pro Arg Glu
 50 55 60
 Lys Leu Pro Pro Pro Leu Pro Pro Pro Pro Thr Gln Ala Lys Ala Arg
 65 70 75 80
 Ala Gly Leu Arg Val Ser Pro Ala Pro Ser Leu Thr Pro Leu Pro Pro
 85 90 95
 Lys Thr Arg Leu Ser Ser Gln Thr Ser Leu Arg Ser Leu Ala Asn Pro
 100 105 110
 Leu Ala Pro Lys Glu Lys Asp Pro Gly Pro Ser Pro Ile Thr Pro Lys
 115 120 125
 Arg Gly Ser Pro Ser Ser Gly Leu Glu Pro Leu Val Pro Pro Ser Val
 130 135 140
 Cys Pro Arg Gly Pro Leu Pro Arg Trp Pro Leu Gly Ile Lys Ala Trp
 145 150 155 160
 Ala Ala Leu Arg Glu Gly Gly Arg Gly Arg Gly Trp Ser Gly Cys Ala
 165 170 175
 Ile Gly Val Ser Gly Ser Phe Ser Ala Arg Val Gly Val Val Glu Trp
 180 185 190
 Gly Arg Glu Ala Ser Arg Ala Pro Glu Gly Ser Gly Arg Asp Glu Asn
 195 200 205
 Gln Leu Phe Thr
 210

<210> 742

<211> 55

<212> PRT

<213> Homo sapiens

<400> 742

His Phe Gly Arg Pro Arg Gln Val Asp His Leu Arg Ser Gly Asp Gln
 1 5 10 15
 Pro Gly Gln His Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Lys Leu
 20 25 30
 Ala Gly Asn Arg Leu Asn Leu Gly Gly Gly Ser Ser Glu Pro Arg

771

35	40	45
Ser Trp His Cys Thr Pro Thr		
50	55	

<210> 743
 <211> 188
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 743

Pro Thr Arg Leu Arg Lys Arg Pro Ser Ser Gln Thr Asn Pro Ser Pro			
1	5	10	15

Ser Ser Ser Arg Val Arg Asp Pro Val Gln Glu Arg Arg Ala Asn Ala

20	25	30
----	----	----

Thr Gly Ala His Leu Asp Lys Leu Asp Gln Gly Arg Leu Val Asp Leu

35	40	45
----	----	----

Val Asn Ala Ser Phe Gly Lys Lys Leu Arg Asp Asp Tyr Leu Ala Ser

50	55	60
----	----	----

Leu Arg Pro Arg Leu His Ser Ile Tyr Val Ser Glu Gly Tyr Asn Ala

65	70	75	80
----	----	----	----

Ala Ala Ile Leu Thr Met Glu Pro Val Leu Gly Gly Thr Pro Tyr Leu

85	90	95
----	----	----

Asp Lys Phe Val Val Ser Ser Xaa Arg Gln Gly Gln Gly Ser Gly Gln

100	105	110
-----	-----	-----

Met Leu Trp Glu Cys Leu Arg Arg Asp Leu Gln Thr Leu Phe Trp Arg

115	120	125
-----	-----	-----

Ser Arg Val Thr Asn Pro Ile Asn Pro Trp Tyr Phe Lys His Ser Asp

130	135	140
-----	-----	-----

Gly Ser Phe Ser Asn Lys Gln Trp Ile Phe Phe Trp Phe Gly Leu Ala

145	150	155	160
-----	-----	-----	-----

Asp Ile Arg Asp Ser Tyr Glu Leu Val Asn His Ala Lys Gly Leu Pro

165	170	175
-----	-----	-----

772

Asp Ser Phe His Lys Pro Ala Ser Asp Pro Gly Ser
180 185

<210> 744

<211> 128

<212> PRT

<213> Homo sapiens

<400> 744

Met Phe Pro Ile Tyr Ser Arg Gly Ser Tyr Gly Gly Gly Asp Gly Gly
1 5 10 15

Tyr Asn Gly Phe Gly Gly Asp Gly Gly Asn Tyr Gly Gly Gly Pro Gly
20 25 30

Tyr Ser Ser Arg Gly Gly Tyr Gly Gly Gly Gly Pro Gly Tyr Gly Asn
35 40 45

Gln Gly Gly Gly Tyr Gly Gly Gly Gly Gly Tyr Asp Gly Tyr Asn Glu
50 55 60

Gly Gly Asn Phe Gly Gly Gly Asn Tyr Gly Gly Gly Gly Asn Tyr Asn
65 70 75 80

Asp Phe Gly Asn Tyr Ser Gly Gln Gln Gln Ser Asn Tyr Gly Pro Met
85 90 95

Lys Gly Gly Ser Phe Gly Gly Arg Ser Ser Gly Ser Pro Tyr Gly Gly
100 105 110

Gly Tyr Gly Ser Gly Gly Gly Ser Gly Gly Tyr Gly Ser Arg Arg Phe
115 120 125

<210> 745

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

773

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 745

Glu	Ser	Arg	Glu	Gln	Ile	Leu	Pro	Val	Thr	Ser	Gly	Phe	Glu	Gly	Val
1				5					10					15	

Pro	Gly	Phe	Lys	Leu	Glu	Ser	Pro	Leu	Ser	Val	Pro	Lys	Arg	Xaa	Leu
			20					25					30		

Arg	Xaa	Ser	Phe	His	Pro	Xaa	Xaa	Lys	Thr	Ser	Phe	Trp	Met	Leu	Cys
		35					40					45			

Leu	Arg	Thr	Ser	Leu	Val	His	Lys	Met	Leu	His	Leu	Leu	Lys	Phe	Glu
	50					55					60				

Asp	Ala	Lys	Leu	Ala	Ala	Ala	Ile	Ser	Glu	Val	Val	Ser	Gln	Thr	Pro
65					70					75					80

Ala	Ser	Thr	Thr	Gln	Ala	Gly	Ala	Pro	Pro	Arg	Asp	Thr	Ser	Gln	Ser
				85					90					95	

Asp	Lys	Asp	Leu	Asp	Asp	Ala	Leu	Asp	Lys	Leu	Ser	Asp	Ser	Leu	Gly
		100						105					110		

Gln	Arg	Gln	Pro	Asp	Pro	Asp	Glu	Asn	Lys	Pro	Met	Glu	Asp	Lys	Val
		115					120					125			

Lys	Glu	Lys	Ala	Lys	Ala	Glu	His	Arg	Asp	Lys	Leu	Gly	Glu	Arg	Asp
	130					135					140				

Asp	Thr	Ile	Pro	Pro	Glu	Tyr	Arg	His	Leu	Leu	Asp	Asp	Asn	Gly	Gln
145					150					155					160

Asp	Lys	Pro	Val	Lys	Pro	Pro	Thr	Lys	Lys	Ser	Glu	Asp	Ser	Lys	Lys
			165						170					175	

Pro	Ala	Asp	Asp	Gln	Asp	Pro	Ile	Asp	Ala	Leu	Ser	Gly	Asp	Leu	Asp
		180						185						190	

774

Ser Cys Pro Ser Thr Thr Glu Thr Ser Gln Asn Thr Ala Lys Asp Lys
 195 200 205

Cys Lys Lys Ala Ala Ser Ser Ser Lys Ala Pro Lys Asn Gly Gly Lys
 210 215 220

Ala Lys Asp Ser Ala Lys Thr Thr Glu Glu Thr Ser Lys Pro Lys Asp
 225 230 235 240

Asp

<210> 746

<211> 186

<212> PRT

<213> Homo sapiens

<400> 746

Gln Ser Arg Gly Pro Gly Pro Val Thr Asp Gly Arg Gly Arg Glu Arg
 1 5 10 15

Gly Gly Gly Asp Thr Met Ser Ser Pro Ser Pro Gly Lys Arg Arg Met
 20 25 30

Asp Thr Asp Val Val Lys Leu Ile Glu Ser Lys His Glu Val Thr Ile
 35 40 45

Leu Gly Gly Leu Asn Glu Phe Val Val Lys Phe Tyr Gly Pro Gln Gly
 50 55 60

Thr Pro Tyr Glu Gly Gly Val Trp Lys Val Arg Val Asp Leu Pro Asp
 65 70 75 80

Lys Tyr Pro Phe Lys Ser Pro Ser Ile Gly Phe Met Asn Lys Ile Phe
 85 90 95

His Pro Asn Ile Asp Glu Ala Ser Gly Thr Val Cys Leu Asp Val Ile
 100 105 110

Asn Gln Thr Trp Thr Ala Leu Tyr Asp Leu Thr Asn Ile Phe Glu Ser
 115 120 125

Phe Leu Pro Gln Leu Leu Ala Tyr Pro Asn Pro Ile Asp Pro Leu Asn
 130 135 140

Gly Asp Ala Ala Ala Met Tyr Leu His Arg Pro Glu Glu Tyr Lys Gln
 145 150 155 160

Lys Ile Lys Glu Tyr Ile Gln Lys Tyr Ala Thr Glu Glu Phe Phe Leu

775

165 170 175
 His Asn Leu Gln Phe Gln Glu Phe Asn Leu
 180 185

 <210> 747
 <211> 40
 <212> PRT
 <213> Homo sapiens

 <400> 747
 Leu Cys Cys Phe Lys Tyr Leu Gly Asp Cys Phe Ile Ile Ser Ser Thr
 1 5 10 15
 Lys Lys Thr Phe Asn Phe Ala Ile Glu Thr Val Glu Leu Cys His Ala
 20 25 30
 Phe Ile Arg Ser Ser Ala Leu Cys
 35 40

 <210> 748
 <211> 65
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 748
 Gln Met Cys Leu Gln Gly Tyr Gly Xaa Ser Ile Thr Asn Phe His Val
 1 5 10 15
 Tyr Leu Glu Val Phe Leu Asn Gly Ile Pro Lys Ser Arg Ser Leu Lys
 20 25 30
 Met Pro Ile Lys Val Asn Asn Ile Tyr Leu Lys Arg Thr Leu Asn Met
 35 40 45
 Pro Ser Phe Leu Ile Arg Asn Ile Phe Glu Thr Trp Val Phe Val Asn
 50 55 60
 Asn
 65

776

<210> 749

<211> 143

<212> PRT

<213> Homo sapiens

<400> 749

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Val

1 5 10 15

Arg Gln Ala Glu Met Leu Asp Asp Leu Met Glu Lys Arg Lys Glu Lys

20 25 30

Leu Asp Ser Val Ile Glu Phe Ser Ile Pro Asp Ser Leu Leu Ile Arg

35 40 45

Arg Ile Thr Gly Arg Leu Ile His Pro Lys Ser Gly Arg Ser Tyr His

50 55 60

Glu Glu Phe Asn Pro Pro Lys Glu Pro Met Lys Asp Asp Ile Thr Gly

65 70 75 80

Glu Pro Leu Ile Arg Arg Ser Asp Asp Asn Glu Lys Ala Leu Lys Ile

85 90 95

Arg Leu Gln Ala Tyr His Thr Gln Thr Thr Pro Leu Ile Glu Tyr Tyr

100 105 110

Arg Lys Arg Gly Ile His Ser Ala Ile Asp Ala Ser Gln Thr Pro Asp

115 120 125

Val Val Phe Ala Ser Ile Leu Ala Ala Phe Ser Lys Ala Thr Ser

130 135 140

<210> 750

<211> 136

<212> PRT

<213> Homo sapiens

<400> 750

Thr Glu Leu Val Leu Ser Ile Pro Arg His Met Pro Ala Ala Tyr Ser

1 5 10 15

Arg Phe Leu Ser Trp Cys Leu Leu Ala Leu Gly Glu Glu Ala Lys Leu

20 25 30

Trp Leu Pro Ala Ser Arg Ala Lys Arg Val Arg Pro Trp Ile Glu Thr

35 40 45

777

Val Thr Ser Ile Ala Thr Pro Glu Arg Asn Asn Met Ala Val Lys Lys
 50 55 60

Ser Arg Leu Lys Ser Lys Gln Lys Ala Gln Asp Thr Leu Gln Arg Val
 65 70 75 80

Asn Gln Leu Lys Glu Glu Asn Glu Arg Leu Glu Ala Lys Ile Lys Leu
 85 90 95

Leu Thr Lys Glu Leu Ser Val Leu Lys Asp Leu Phe Leu Glu His Ala
 100 105 110

His Asn Leu Ala Asp Asn Val Gln Ser Ile Ser Thr Glu Asn Thr Thr
 115 120 125

Ala Asp Gly Asp Asn Ala Gly Gln
 130 135

<210> 751

<211> 885

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 751

Pro Xaa Val Xaa Ser Lys His Leu Lys Asp Ser Met Cys Asn Glu Phe
 1 5 10 15

Ser Gln Ile Phe Gln Leu Cys Gln Phe Val Met Glu Asn Ser Gln Asn
 20 25 30

Ala Pro Leu Val His Ala Thr Leu Glu Thr Leu Leu Arg Phe Leu Asn
 35 40 45

Trp Ile Pro Leu Gly Tyr Ile Phe Glu Thr Lys Leu Ile Ser Thr Leu

778

50		55		60
Ile Tyr Lys Phe Leu Asn Val Pro Met Phe Arg Asn Val Ser Leu Lys				
65		70		75
Cys Leu Thr Glu Ile Ala Gly Val Ser Val Ser Gln Tyr Glu Glu Gln				
	85		90	95
Phe Val Thr Leu Phe Thr Leu Thr Met Met Gln Leu Lys Gln Met Leu				
	100		105	110
Pro Leu Asn Thr Asn Ile Arg Leu Ala Tyr Ser Asn Gly Lys Asp Asp				
	115		120	125
Glu Gln Asn Phe Ile Gln Asn Leu Ser Leu Phe Leu Cys Thr Phe Leu				
	130		135	140
Lys Glu His Asp Gln Leu Ile Glu Lys Arg Leu Asn Leu Arg Glu Thr				
145		150		155
Leu Met Glu Ala Leu His Tyr Met Leu Leu Val Ser Glu Val Glu Glu				
	165		170	175
Thr Glu Ile Phe Lys Ile Cys Leu Glu Tyr Trp Asn His Leu Ala Ala				
	180		185	190
Glu Leu Tyr Arg Glu Ser Pro Phe Ser Thr Ser Ala Ser Pro Leu Leu				
	195		200	205
Ser Gly Ser Gln His Phe Asp Val Pro Pro Arg Arg Gln Leu Tyr Leu				
	210		215	220
Pro Met Leu Phe Lys Val Arg Leu Leu Met Val Ser Arg Met Ala Lys				
225		230		235
Pro Glu Glu Val Leu Val Val Glu Asn Asp Gln Gly Glu Val Val Arg				
	245		250	255
Glu Phe Met Lys Asp Thr Asp Ser Ile Asn Leu Tyr Lys Asn Met Arg				
	260		265	270
Glu Thr Leu Val Tyr Leu Thr His Leu Asp Tyr Val Asp Thr Glu Arg				
	275		280	285
Ile Met Thr Glu Lys Leu His Asn Gln Val Asn Gly Thr Glu Trp Ser				
	290		295	300
Trp Xaa Asn Leu Asn Thr Leu Cys Trp Ala Ile Gly Ser Ile Ser Gly				
305		310		315
Ala Met His Glu Glu Asp Glu Lys Arg Phe Leu Val Thr Val Ile Lys				

779

	325		330		335
Asp Leu Leu Gly Leu Cys Glu Gln Lys Arg Gly Lys Asp Asn Lys Ala	340		345		350
Ile Ile Ala Ser Asn Ile Met Tyr Ile Val Gly Gln Tyr Pro Arg Phe	355		360		365
Leu Arg Ala His Trp Lys Phe Leu Lys Thr Val Val Asn Lys Leu Phe	370		375		380
Glu Phe Met His Glu Thr His Asp Gly Val Gln Asp Met Ala Cys Asp	385		390		395
Thr Phe Ile Lys Ile Ala Gln Lys Cys Arg Arg His Phe Val Gln Val	405		410		415
Gln Val Gly Glu Val Met Pro Phe Ile Asp Glu Ile Leu Asn Asn Ile	420		425		430
Asn Thr Ile Ile Cys Asp Leu Gln Pro Gln Gln Val His Thr Phe Tyr	435		440		445
Glu Ala Val Gly Tyr Met Ile Gly Ala Gln Thr Asp Gln Thr Val Gln	450		455		460
Glu His Leu Ile Glu Lys Tyr Met Leu Leu Pro Asn Gln Val Trp Asp	465		470		475
Ser Ile Ile Gln Gln Ala Thr Lys Asn Val Asp Ile Leu Lys Asp Pro	485		490		495
Glu Thr Val Lys Gln Leu Gly Ser Ile Leu Lys Thr Asn Val Arg Ala	500		505		510
Cys Lys Ala Val Gly His Pro Phe Val Ile Gln Leu Gly Arg Ile Tyr	515		520		525
Leu Asp Met Leu Asn Val Tyr Lys Cys Leu Ser Glu Asn Ile Ser Ala	530		535		540
Ala Ile Gln Ala Asn Gly Glu Met Val Thr Lys Gln Pro Leu Ile Arg	545		550		555
Ser Met Arg Thr Val Lys Arg Glu Thr Leu Lys Leu Ile Ser Gly Trp	565		570		575
Val Ser Arg Ser Asn Asp Pro Gln Met Val Ala Glu Asn Phe Val Pro	580		585		590
Pro Leu Leu Asp Ala Val Leu Ile Asp Tyr Gln Arg Asn Val Pro Ala					

780

595	600	605
Ala Arg Glu Pro Glu Val Leu Ser Thr Met Ala Ile Ile Val Asn Lys		
610	615	620
Leu Gly Gly His Ile Thr Ala Glu Ile Pro Gln Ile Phe Asp Ala Val		
625	630	635 640
Phe Glu Cys Thr Leu Asn Met Ile Asn Lys Asp Phe Glu Glu Tyr Pro		
	645	650 655
Glu His Arg Thr Asn Phe Phe Leu Leu Leu Gln Ala Val Asn Ser His		
	660	665 670
Cys Phe Pro Ala Phe Leu Ala Ile Pro Pro Thr Gln Phe Lys Leu Val		
	675	680 685
Leu Asp Ser Ile Ile Trp Ala Phe Lys His Thr Met Arg Asn Val Ala		
690	695	700
Asp Thr Gly Leu Gln Ile Leu Phe Thr Leu Leu Gln Asn Val Ala Gln		
705	710	715 720
Glu Glu Ala Ala Ala Gln Ser Phe Tyr Gln Thr Tyr Phe Cys Asp Ile		
	725	730 735
Leu Gln His Ile Phe Ser Val Val Thr Asp Thr Ser His Thr Ala Gly		
	740	745 750
Leu Thr Met His Ala Ser Ile Leu Ala Tyr Met Phe Asn Leu Val Glu		
	755	760 765
Glu Gly Lys Ile Ser Thr Ser Leu Asn Pro Gly Asn Pro Val Asn Asn		
770	775	780
Gln Ile Phe Leu Gln Glu Tyr Val Ala Asn Leu Leu Lys Ser Ala Phe		
785	790	795 800
Pro His Leu Gln Asp Ala Gln Val Lys Leu Phe Val Thr Gly Leu Phe		
	805	810 815
Ser Leu Asn Gln Asp Ile Pro Ala Phe Lys Glu His Leu Arg Asp Phe		
	820	825 830
Leu Val Gln Ile Lys Glu Phe Ala Gly Glu Asp Thr Ser Asp Leu Phe		
	835	840 845
Leu Glu Glu Arg Glu Ile Ala Leu Arg Gln Ala Asp Glu Glu Lys His		
850	855	860
Lys Arg Gln Met Ser Val Pro Gly Ile Phe Asn Pro His Glu Ile Pro		

781

865 870 875 880

Glu Glu Met Cys Asp
885

<210> 752

<211> 209

<212> PRT

<213> Homo sapiens

<400> 752

Val Thr Phe Gly Val Ile Thr Ser Ile Ile Ile Trp Ala Leu Ala Ile
1 5 10 15

Leu Ala Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp Glu Phe
20 25 30

Thr His His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu Arg Glu
35 40 45

Trp Lys Leu Phe Gln Ala Leu Lys Leu Asn Leu Phe Gly Leu Val Leu
50 55 60

Pro Leu Leu Val Met Ile Ile Cys Tyr Thr Gly Ile Ile Lys Ile Leu
65 70 75 80

Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu Ile Phe
85 90 95

Val Ile Met Ile Ile Phe Phe Leu Phe Trp Thr Pro Tyr Asn Leu Thr
100 105 110

Ile Leu Ile Ser Val Phe Gln Asp Phe Leu Phe Thr His Glu Cys Glu
115 120 125

Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr Glu Val Ile Ala
130 135 140

Tyr Thr His Cys Cys Val Asn Pro Val Ile Tyr Ala Phe Val Gly Glu
145 150 155 160

Arg Phe Arg Lys Tyr Leu Arg Gln Leu Phe His Arg Arg Val Ala Val
165 170 175

His Leu Val Lys Trp Leu Pro Phe Leu Ser Val Asp Arg Leu Glu Arg
180 185 190

Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Leu Ser Ala Gly
195 200 205

782

Phe

<210> 753

<211> 214

<212> PRT

<213> Homo sapiens

<400> 753

Leu Ser Val Ala Ser Leu Ser Phe Leu Pro Asn Ala Ser Ala Glu Asp
 1 5 10 15

Thr Met Ser Arg Leu Ser Arg Ser Leu Leu Trp Ala Ala Thr Cys Leu
 20 25 30

Gly Val Leu Cys Val Leu Ser Ala Asp Lys Asn Thr Thr Gln His Pro
 35 40 45

Asn Val Thr Thr Leu Ala Pro Ile Ser Asn Val Thr Ser Ala Pro Val
 50 55 60

Thr Ser Leu Pro Leu Val Thr Thr Pro Ala Pro Glu Thr Cys Glu Gly
 65 70 75 80

Arg Asn Ser Cys Val Ser Cys Phe Asn Val Ser Val Val Asn Thr Thr
 85 90 95

Cys Phe Trp Ile Glu Cys Lys Asp Glu Ser Tyr Cys Ser His Asn Ser
 100 105 110

Thr Val Ser Asp Cys Gln Val Gly Asn Thr Thr Asp Phe Cys Ser Val
 115 120 125

Ser Thr Ala Thr Pro Val Pro Thr Ala Asn Ser Thr Ala Lys Pro Thr
 130 135 140

Val Gln Pro Ser Pro Ser Thr Thr Ser Lys Thr Val Thr Thr Ser Gly
 145 150 155 160

Thr Thr Asn Asn Thr Val Thr Pro Thr Ser Gln Pro Val Arg Lys Ser
 165 170 175

Thr Phe Asp Ala Ala Ser Phe Ile Gly Gly Ile Val Leu Val Leu Gly
 180 185 190

Val Gln Ala Val Ile Phe Phe Leu Tyr Lys Phe Cys Lys Ser Lys Glu
 195 200 205

783

Arg Asn Tyr His Thr Leu
210

<210> 754

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 754

Pro Arg Pro Arg Glu Pro Gln Val Leu Ala Ala Gly Asp Val Arg Ser
1 5 10 15

Pro Ser Asp Pro Arg Arg Val Lys Ala Asn Leu Ser Glu Val Leu Val
20 25 30

Tyr Ser Val Leu Gly Val Asn Val Thr Ser Thr Glu Val Tyr Gly Ala
35 40 45

Phe Thr Cys Ser Ile Gln Asn Ile Ser Phe Ser Ser Phe Thr Leu Gln
50 55 60

Arg Ala Gly Pro Thr Ser His Val Ala Ala Val Leu Ala Ser Leu Leu
65 70 75 80

Val Leu Leu Ala Leu Leu Leu Ala Ala Leu Leu Tyr Val Lys Cys Arg
85 90 95

Leu Asn Val Leu Leu Trp Tyr Gln Asp Ala Tyr Gly Glu Val Glu Ile
100 105 110

Asn Asp Gly Lys Leu Tyr Asp Ala Tyr Val Ser Tyr Ser Asp Cys Pro
115 120 125

Glu Asp Arg Lys Phe Val Asn Phe Ile Leu Lys Pro Gln Leu Glu Arg
130 135 140

Arg Arg Gly Tyr Lys Leu Phe Leu Asp Asp Arg Asp Leu Leu Pro Arg
145 150 155 160

Ala Glu Pro Ser Ala Asp Leu Leu Val Asn Leu Ser Arg Cys Arg Arg
165 170 175

Leu Ile Val Val Leu Ser Asp Ala Phe Leu Ser Arg Ala Trp Cys Ser
180 185 190

784

His Ser Phe Arg Glu Gly Leu Cys Arg Leu Leu Glu Leu Thr Arg Arg
 195 200 205

Pro Ile Phe Ile Thr Phe Glu Gly Gln Arg Arg Asp Pro Ala His Pro
 210 215 220

Ala Leu Arg Leu Leu Arg Xaa His Arg His Leu Val Thr Leu Leu Leu
 225 230 235 240

Trp Arg Pro Gly Ser Val Thr Pro Ser Ser Asp Phe Trp Lys Glu Val
 245 250 255

Gln Leu Ala Leu Pro Arg Lys Val Arg Tyr Arg Pro Val Glu Gly Asp
 260 265 270

Pro Gln Thr Gln Leu Gln Asp Asp Lys Asp Pro Met Leu Ile Leu Arg
 275 280 285

Gly Arg Val Pro Glu Gly Arg Ala Leu Asp Ser Glu Val Asp Pro Asp
 290 295 300

Pro Glu Gly Asp Leu Gly Val Arg Gly Pro Val Phe Gly Glu Pro Ser
 305 310 315 320

Ala Pro Pro His Thr Ser Gly Val Ser Leu Gly Glu Ser Arg Ser Ser
 325 330 335

Glu Val Asp Val Ser Asp Leu Gly Ser Arg Asn Tyr Ser Ala Arg Thr
 340 345 350

Asp Phe Tyr Cys Leu Val Ser Lys Asp Asp Met
 355 360

<210> 755

<211> 232

<212> PRT

<213> Homo sapiens

<400> 755

Pro Val Gln Pro Thr His Ala Pro Gly Thr Thr Ala Ala Ala His Asn
 1 5 10 15

Thr Thr Arg Thr Ala Ala Pro Ala Ser Thr Val Pro Gly Pro Thr Leu
 20 25 30

Ala Pro Gln Pro Ser Ser Val Lys Thr Gly Ile Tyr Gln Val Leu Asn
 35 40 45

785

Gly Ser Arg Leu Cys Ile Lys Ala Glu Met Gly Ile Gln Leu Ile Val
 50 55 60
 Gln Asp Lys Glu Ser Val Phe Ser Pro Arg Arg Tyr Phe Asn Ile Asp
 65 70 75 80
 Pro Asn Ala Thr Gln Ala Ser Gly Asn Cys Gly Thr Arg Lys Ser Asn
 85 90 95
 Leu Leu Leu Asn Phe Gln Gly Gly Phe Val Asn Leu Thr Phe Thr Lys
 100 105 110
 Asp Glu Glu Ser Tyr Tyr Ile Ser Glu Val Gly Ala Tyr Leu Thr Val
 115 120 125
 Ser Asp Pro Glu Thr Val Tyr Gln Gly Ile Lys His Ala Val Val Met
 130 135 140
 Phe Gln Thr Ala Val Gly His Ser Phe Lys Cys Val Ser Glu Gln Ser
 145 150 155 160
 Leu Gln Leu Ser Ala His Leu Gln Val Lys Thr Thr Asp Val Gln Leu
 165 170 175
 Gln Ala Phe Asp Phe Glu Asp Asp His Phe Gly Asn Val Asp Glu Cys
 180 185 190
 Ser Ser Asp Tyr Thr Ile Val Leu Pro Val Ile Gly Ala Ile Val Val
 195 200 205
 Gly Leu Cys Leu Met Gly Met Gly Val Tyr Lys Ile Arg Leu Arg Cys
 210 215 220
 Gln Ser Ser Gly Tyr Gln Arg Ile
 225 230

<210> 756

<211> 128

<212> PRT

<213> Homo sapiens

<400> 756

Lys Leu Leu Pro Val Val Ile Ile Ala Val Gly Val Phe Leu Phe Leu
 1 5 10 15

Val Ala Phe Val Gly Cys Cys Gly Ala Cys Lys Glu Asn Tyr Cys Leu
 20 25 30

Met Ile Thr Phe Ala Ile Phe Leu Ser Leu Ile Met Leu Val Glu Val

786

```

          35          40          45
Ala Ala Ala Ile Ala Gly Tyr Val Phe Arg Asp Lys Val Met Ser Glu
  50          55          60
Phe Asn Asn Asn Phe Arg Gln Gln Met Glu Asn Tyr Pro Lys Asn Asn
  65          70          75          80
His Thr Ala Ser Ile Leu Asp Arg Met Gln Ala Asp Phe Lys Cys Cys
          85          90          95
Gly Ala Ala Asn Tyr Thr Asp Trp Glu Lys Ile Pro Ser Met Ser Lys
          100          105          110
Asn Arg Val Pro Asp Ser Cys Cys Ile Asn Val Thr Val Gly Leu Gly
          115          120          125

```

<210> 757

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 757

```

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
  1          5          10          15
Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
          20          25          30
Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
          35          40          45
Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
          50          55          60
His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
          65          70          75          80
Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
          85          90          95

```

787

Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
 100 105 110

Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
 115 120 125

Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val
 130 135 140

Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu
 145 150 155 160

Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu
 165 170 175

Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His
 180 185 190

Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala
 195 200 205

Gly Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu
 210 215 220

Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe
 225 230 235 240

Pro Gly Glu Lys Asp Phe Arg Ile Ile Gly Leu Ser Gln Phe Leu His
 245 250 255

Ser

<210> 758

<211> 319

<212> PRT

<213> Homo sapiens

<400> 758

Pro Gly Ser Thr His Ala Ser Gly Lys Ile Gln Asn Lys Trp Leu Arg
 1 5 10 15

Pro Ser Pro Arg Ser His Arg Thr Pro Glu Ser Gly Arg Val Leu Ser
 20 25 30

Leu Phe Arg Leu Pro Pro Pro Gly Met Ala Leu Ser Gly Ser Thr Pro
 35 40 45

Ala Pro Cys Trp Glu Glu Asp Glu Cys Leu Asp Tyr Tyr Gly Met Leu

788

50		55		60
Ser Leu His Arg Met Phe Glu Val Val Gly Gly Gln Leu Thr Glu Cys				
65		70		75 80
Glu Leu Glu Leu Leu Ala Phe Leu Leu Asp Glu Ala Pro Gly Ala Ala				
	85		90	95
Gly Gly Leu Ala Arg Ala Arg Ser Gly Leu Glu Leu Leu Leu Glu Leu				
	100		105	110
Glu Arg Arg Gly Gln Cys Asp Glu Ser Asn Leu Arg Leu Leu Gly Gln				
	115		120	125
Leu Leu Arg Val Leu Ala Arg His Asp Leu Leu Pro His Leu Ala Arg				
	130		135	140
Lys Arg Arg Arg Pro Val Ser Pro Glu Arg Tyr Ser Tyr Gly Thr Ser				
145		150		155 160
Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg Arg Arg Gln Ser				
	165		170	175
Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu Thr Gly Ser Pro				
	180		185	190
Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro Ser Gly Gly Ala				
	195		200	205
Arg Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln Gln Gln Ser Glu				
	210		215	220
Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys Asp Ile Arg Leu				
225		230		235 240
Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala Leu Glu Gln Gly				
	245		250	255
Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln Leu Asp Val Phe				
	260		265	270
Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu Gly Ser Val Val				
	275		280	285
Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp Ala Phe Trp Gly				
	290		295	300
Asp Tyr Leu Ser Gly Ala Leu Leu Gln Pro Cys Gly Ala Cys Ser				
305		310		315

789

<210> 759

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 759

Glu Ser Trp Leu Val Leu Gly Arg Arg Lys Ala Gly Arg Leu Ile Gly
 1 5 10 15

Ala Cys Gly Phe Glu Pro Pro His Phe Leu Thr Leu Asp Leu Glu Met
 20 25 30

His Arg Asp Ser Cys Pro Leu Asp Cys Lys Val Tyr Val Gly Asn Leu
 35 40 45

Gly Asn Asn Gly Asn Lys Thr Glu Leu Glu Arg Ala Phe Gly Tyr Tyr
 50 55 60

Gly Pro Leu Arg Ser Val Trp Val Ala Arg Asn Pro Pro Gly Phe Ala
 65 70 75 80

Phe Val Glu Phe Glu Asp Pro Arg Asp Ala Ala Asp Ala Val Arg Glu
 85 90 95

Leu Asp Gly Arg Thr Leu Cys Gly Cys Arg Val Arg Val Glu Leu Ser
 100 105 110

Asn Gly Glu Lys Arg Ser Arg Asn Arg Gly Pro Pro Pro Ser Trp Gly
 115 120 125

Arg Arg Pro Arg Asp Asp Tyr Arg Arg Arg Ser Pro Pro Pro Arg Arg
 130 135 140

Arg Val Xaa Ile Met Ser Leu Leu Thr Thr Leu
 145 150 155

<210> 760

<211> 753

<212> PRT

<213> Homo sapiens

<400> 760

Leu Lys Lys Gly Ala Ala Glu Glu Ala Glu Leu Glu Asp Ser Asp Asp

790

1	5	10	15
Glu Glu Lys Pro Val Lys Gln Asp Asp Phe Pro Lys Asp Phe Gly Pro	20	25	30
Arg Lys Leu Lys Thr Gly Gly Asn Phe Lys Pro Ser Gln Lys Gly Phe	35	40	45
Ala Gly Gly Thr Lys Ser Phe Met Asp Phe Gly Ser Trp Glu Arg His	50	55	60
Thr Lys Gly Ile Gly Gln Lys Leu Leu Gln Lys Met Gly Tyr Val Pro	65	70	75
Gly Arg Gly Leu Gly Lys Asn Ala Gln Gly Ile Ile Asn Pro Ile Glu	85	90	95
Ala Lys Gln Arg Lys Gly Lys Gly Ala Val Gly Ala Tyr Gly Ser Glu	100	105	110
Arg Thr Thr Gln Ser Met Gln Asp Phe Pro Val Val Asp Ser Glu Glu	115	120	125
Glu Ala Glu Glu Glu Phe Gln Lys Glu Leu Ser Gln Trp Arg Lys Asp	130	135	140
Pro Ser Gly Ser Lys Lys Lys Pro Lys Tyr Ser Tyr Lys Thr Val Glu	145	150	155
Glu Leu Lys Ala Lys Gly Arg Ile Ser Lys Lys Leu Thr Ala Pro Gln	165	170	175
Lys Glu Leu Ser Gln Val Lys Val Ile Asp Met Thr Gly Arg Glu Gln	180	185	190
Lys Val Tyr Tyr Ser Tyr Ser Gln Ile Ser His Lys His Asn Val Pro	195	200	205
Asp Asp Gly Leu Pro Leu Gln Ser Gln Gln Leu Pro Gln Ser Gly Lys	210	215	220
Glu Ala Lys Ala Pro Gly Phe Ala Leu Pro Glu Leu Glu His Asn Leu	225	230	235
Gln Leu Leu Ile Asp Leu Thr Glu Gln Glu Ile Ile Gln Asn Asp Arg	245	250	255
Gln Leu Gln Tyr Glu Arg Asp Met Val Val Asn Leu Phe His Glu Leu	260	265	270
Glu Lys Met Thr Glu Val Leu Asp His Glu Glu Arg Val Ile Ser Asn			

791

275	280	285
Leu Ser Lys Val Leu Glu Met Val Glu Glu Cys Glu Arg Arg Met Gln		
290	295	300
Pro Asp Cys Ser Asn Pro Leu Thr Leu Asp Glu Cys Ala Arg Ile Phe		
305	310	315
Glu Thr Leu Gln Asp Lys Tyr Tyr Glu Glu Tyr Arg Met Ser Asp Arg		
	325	330
		335
Val Asp Leu Ala Val Ala Ile Val Tyr Pro Leu Met Lys Glu Tyr Phe		
	340	345
		350
Lys Glu Trp Asp Pro Leu Lys Asp Cys Thr Tyr Gly Thr Glu Ile Ile		
	355	360
		365
Ser Lys Trp Lys Ser Leu Leu Glu Asn Asp Gln Leu Leu Ser His Gly		
	370	375
		380
Gly Gln Asp Leu Ser Ala Asp Ala Phe His Arg Leu Ile Trp Glu Val		
385	390	395
		400
Trp Met Pro Phe Val Arg Asn Ile Val Thr Gln Trp Gln Pro Arg Asn		
	405	410
		415
Cys Asp Pro Met Val Asp Phe Leu Asp Ser Trp Val His Ile Ile Pro		
	420	425
		430
Val Trp Ile Leu Asp Asn Ile Leu Asp Gln Leu Ile Phe Pro Lys Leu		
	435	440
		445
Gln Lys Glu Val Glu Asn Trp Asn Pro Leu Thr Asp Thr Val Pro Ile		
	450	455
		460
His Ser Trp Ile His Pro Trp Leu Pro Leu Met Gln Ala Arg Leu Glu		
465	470	475
		480
Pro Leu Tyr Ser Pro Ile Arg Ser Lys Leu Ser Ser Ala Leu Gln Lys		
	485	490
		495
Trp His Pro Ser Asp Ser Ser Ala Lys Leu Ile Leu Gln Pro Trp Lys		
	500	505
		510
Asp Val Phe Thr Pro Gly Ser Trp Glu Ala Phe Met Val Lys Asn Ile		
	515	520
		525
Val Pro Lys Leu Gly Met Cys Leu Gly Glu Leu Val Ile Asn Pro His		
	530	535
		540
Gln Gln His Met Asp Ala Phe Tyr Trp Val Ile Asp Trp Glu Gly Met		

792

```

545                550                555                560
Ile Ser Val Ser Ser Leu Val Gly Leu Leu Glu Lys His Phe Phe Pro
                565                570                575
Lys Trp Leu Gln Val Leu Cys Ser Trp Leu Ser Asn Ser Pro Asn Tyr
                580                585                590
Glu Glu Ile Thr Lys Trp Tyr Leu Gly Trp Lys Ser Met Phe Ser Asp
                595                600                605
Gln Val Leu Ala His Pro Ser Val Lys Asp Lys Phe Asn Glu Ala Leu
                610                615                620
Asp Ile Met Asn Arg Ala Val Ser Ser Asn Val Gly Ala Tyr Met Gln
625                630                635                640
Pro Gly Ala Arg Glu Asn Ile Ala Tyr Leu Thr His Thr Glu Arg Arg
                645                650                655
Lys Asp Phe Gln Tyr Glu Ala Met Gln Glu Arg Arg Glu Ala Glu Asn
                660                665                670
Met Ala Gln Arg Gly Ile Gly Val Ala Ala Ser Ser Val Pro Met Asn
                675                680                685
Phe Lys Asp Leu Ile Glu Thr Lys Ala Glu Glu His Asn Ile Val Phe
        690                695                700
Met Pro Val Ile Gly Lys Arg His Glu Gly Lys Gln Leu Tyr Thr Phe
705                710                715                720
Gly Arg Ile Val Ile Tyr Ile Asp Arg Gly Val Val Phe Val Gln Gly
                725                730                735
Glu Lys Thr Trp Val Pro Thr Ser Leu Gln Ser Leu Ile Asp Met Ala
        740                745                750

```

Lys

<210> 761

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

793

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 761

Val Ala Lys Asp Met Ala Ala Ala Xaa Val Arg Cys Ile Arg Lys Glu
 1 5 10 15

Ile Arg Asp Leu Tyr Val Asn Ile Gln Pro Val Gln Glu Pro Lys Asp
 20 25 30

Gln Ala Phe Gly Asn Gly Asn Gly Ile Ile Ile Ile Ala Glu Thr Ser
 35 40 45

Thr Gly Cys Leu Phe Ala Gly Ser Ser Leu Gly Lys Arg Gly Val Asn
 50 55 60

Ala Asp Lys Val Gly Ile Glu Ala Ala Glu Met Leu Leu Ala Asn Leu
 65 70 75 80

Arg His Gly Gly Thr Val Asp Glu Tyr Leu Gln Asp Gln Leu Ile Val
 85 90 95

Phe Met Ala Leu Ala Asn Gly Val Ser Arg Ile Lys Thr Gly Pro Val
 100 105 110

Thr Leu His Thr Gln Thr Ala Ile His Phe Ala Glu Gln Ile Ala Lys
 115 120 125

Ala Lys Phe Ile Val Lys Lys Ser Glu Asp Glu Glu Asp Ala Ala Lys
 130 135 140

Asp Thr Tyr Ile Ile Glu Cys Gln Gly Ile Gly Met Thr Asn Pro Asn
 145 150 155 160

Leu

<210> 762

<211> 491

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

794

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (401)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (457)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 762

Ile	Thr	Cys	Pro	Leu	Phe	Leu	Gly	Gly	Pro	Ser	Pro	Ala	Glu	Asp	Arg
1				5					10					15	

Cys	Ala	Ile	Glu	Leu	Ser	Arg	Arg	Gly	Arg	Val	Pro	Leu	Gly	Arg	His
			20					25					30		

Arg	Ala	Glu	Pro	Ser	Pro	Pro	Ala	Phe	Cys	Ser	Lys	Val	Glu	Gly	Tyr
		35					40					45			

Gly	Ser	Val	Cys	Ser	Cys	Lys	Asp	Pro	Thr	Pro	Ile	Glu	Phe	Ser	Pro
	50					55					60				

Asp	Pro	Leu	Pro	Asp	Asn	Lys	Val	Leu	Asn	Val	Pro	Val	Xaa	Val	Ile
65					70					75				80	

Ala	Gly	Asn	Arg	Pro	Asn	Tyr	Leu	Tyr	Arg	Met	Leu	Arg	Ser	Leu	Leu
				85					90					95	

Ser	Ala	Gln	Gly	Val	Ser	Pro	Gln	Met	Ile	Thr	Val	Phe	Ile	Asp	Gly
		100					105					110			

Tyr	Tyr	Glu	Glu	Pro	Met	Asp	Val	Val	Ala	Leu	Phe	Gly	Leu	Arg	Gly
		115				120						125			

Ile	Gln	His	Thr	Pro	Ile	Ser	Ile	Lys	Asn	Ala	Arg	Val	Ser	Gln	His
	130					135					140				

Tyr	Lys	Ala	Ser	Leu	Thr	Ala	Thr	Phe	Asn	Leu	Phe	Pro	Xaa	Ala	Lys
145				150						155				160	

Phe	Ala	Val	Val	Leu	Glu	Glu	Asp	Leu	Asp	Ile	Ala	Val	Asp	Phe	Phe
			165					170						175	

Ser	Phe	Leu	Ser	Gln	Ser	Ile	His	Leu	Leu	Glu	Glu	Asp	Asp	Ser	Leu
		180					185						190		

Tyr	Cys	Ile	Ser	Ala	Trp	Asn	Asp	Gln	Gly	Tyr	Glu	His	Thr	Ala	Glu
		195					200					205			

795

Asp Pro Ala Leu Leu Tyr Arg Val Glu Thr Met Pro Gly Leu Gly Trp
 210 215 220
 Val Leu Arg Arg Ser Leu Tyr Lys Glu Glu Leu Glu Pro Lys Trp Pro
 225 230 235 240
 Thr Pro Glu Lys Leu Trp Asp Trp Asp Met Trp Met Arg Met Pro Glu
 245 250 255
 Gln Arg Arg Gly Arg Glu Cys Ile Ile Pro Asp Val Ser Arg Ser Tyr
 260 265 270
 His Phe Gly Ile Val Gly Leu Asn Met Asn Gly Tyr Phe His Glu Ala
 275 280 285
 Tyr Phe Lys Lys His Lys Phe Asn Thr Val Pro Gly Val Gln Leu Arg
 290 295 300
 Asn Val Asp Ser Leu Lys Lys Glu Ala Tyr Glu Val Glu Val His Arg
 305 310 315 320
 Leu Leu Ser Glu Ala Glu Val Leu Asp His Ser Lys Asn Pro Cys Glu
 325 330 335
 Asp Ser Phe Leu Pro Asp Thr Glu Gly His Thr Tyr Val Ala Phe Ile
 340 345 350
 Arg Met Glu Lys Asp Asp Asp Phe Thr Thr Trp Thr Gln Leu Ala Lys
 355 360 365
 Cys Leu His Ile Trp Asp Leu Asp Val Arg Gly Asn His Arg Gly Leu
 370 375 380
 Trp Arg Leu Phe Arg Lys Lys Asn His Phe Leu Val Val Gly Val Pro
 385 390 395 400
 Xaa Ser Pro Tyr Ser Pro Gly Ser Glu Ser Asn Leu Phe Ile Asp Cys
 405 410 415
 Pro Glu Gly Leu Glu Asn Arg Pro Asn Leu Glu Gly Leu Asp Phe Phe
 420 425 430
 Leu Gly Trp Asn Ala Ala Leu Arg Val Gly Leu Ala Leu Thr Gln Glu
 435 440 445
 Thr Ala Val Pro Asn Pro Trp Thr Xaa Pro Ala Gly Ala His Met Leu
 450 455 460
 Thr Gln Thr His Ser Glu Thr Leu Arg His Trp Thr Arg Pro Pro Leu
 465 470 475 480

796

Ser Leu Leu Phe Val Gln Ile Ser Lys Ala Gly
 485 490

<210> 763
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 763
 Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys
 1 5 10 15
 Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe
 20 25 30
 Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu
 35 40 45
 Leu Leu Pro Leu Pro
 50

<210> 764
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 764
 His Ala Ser Ala His Ala Ser Ala His Ala Ser Gly Arg Arg Lys Lys
 1 5 10 15
 Glu Arg Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu
 20 25 30
 Pro Gly Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala
 35 40 45
 Pro Phe Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn
 50 55 60
 Asn Thr Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu
 65 70 75 80
 Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr
 85 90 95
 Asp Pro Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile

797

100	105	110
Leu Asn Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly		
115	120	125
Tyr Lys Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys		
130	135	140
Asp Gly Gly Ser Tyr Asp Leu His Arg Gly Gln Leu Trp Ala Trp Met		
145	150	155
Gly Arg Leu Ile Ser Pro Val Ser Leu Gln Thr Ser Thr Gly Lys Ala		
165	170	175

<210> 765

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 765

Val Xaa Pro Gly Phe Glu Asn Ile Leu Phe Ala His Ser Ser Trp Tyr
1 5 10 15

Thr Tyr Ala Ala Met Leu Arg Ile Tyr Lys His Trp Asp Phe Asn Ile
20 25 30

Ile Asp Lys Asp Thr Ser Ser Ser Arg Leu Ser Phe Ser Ser Tyr Pro
35 40 45

Gly Phe Leu Glu Ser Leu Asp Asp Phe Tyr Ile Leu Ser Ser Gly Leu
50 55 60

Ile Leu Leu Gln Thr Thr Asn Ser Val Phe Asn Lys Thr Leu Leu Lys
65 70 75 80

Gln Val Ile Pro Glu Thr Leu Leu Ser Trp Gln Arg Val Arg Val Ala

798

				85					90						95	
Asn	Met	Met	Ala	Asp	Ser	Gly	Lys	Arg	Trp	Ala	Asp	Ile	Phe	Ser	Lys	
			100					105					110			
Tyr	Asn	Ser	Gly	Thr	Tyr	Asn	Asn	Gln	Tyr	Met	Val	Leu	Asp	Leu	Lys	
		115					120					125				
Lys	Val	Lys	Leu	Asn	His	Ser	Leu	Asp	Lys	Gly	Thr	Leu	Tyr	Ile	Val	
	130					135					140					
Glu	Gln	Ile	Pro	Thr	Tyr	Val	Glu	Tyr	Ser	Glu	Gln	Thr	Asp	Val	Leu	
145					150					155					160	
Arg	Lys	Gly	Tyr	Trp	Pro	Ser	Tyr	Asn	Val	Pro	Phe	His	Glu	Lys	Ile	
				165					170					175		
Tyr	Asn	Trp	Ser	Gly	Tyr	Pro	Leu	Leu	Val	Gln	Lys	Leu	Gly	Leu	Asp	
			180					185					190			
Tyr	Ser	Tyr	Asp	Leu	Ala	Pro	Arg	Ala	Lys	Ile	Phe	Arg	Arg	Asp	Gln	
		195					200					205				
Gly	Lys	Val	Thr	Asp	Thr	Ala	Ser	Met	Lys	Tyr	Ile	Met	Arg	Tyr	Asn	
	210					215						220				
Asn	Tyr	Lys	Lys	Asp	Pro	Tyr	Ser	Arg	Gly	Asp	Pro	Cys	Asn	Thr	Ile	
225					230					235					240	
Cys	Cys	Arg	Glu	Asp	Leu	Asn	Ser	Pro	Asn	Pro	Ser	Pro	Gly	Gly	Cys	
				245					250					255		
Tyr	Asp	Thr	Lys	Val	Ala	Asp	Ile	Tyr	Leu	Ala	Ser	Gln	Tyr	Thr	Ser	
			260					265					270			
Tyr	Ala	Ile	Ser	Gly	Pro	Thr	Val	Gln	Gly	Gly	Leu	Pro	Val	Phe	Arg	
		275					280					285				
Trp	Asp	Arg	Phe	Asn	Lys	Thr	Leu	His	Gln	Gly	Met	Xaa	Glu	Val	Tyr	
						295					300					
Asn	Phe	Asp	Phe	Ile	Thr	Met	Lys	Pro	Ile	Leu	Lys	Leu	Asp	Ile	Lys	
305					310					315					320	

<210> 766

<211> 848

799

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 766

Gln Xaa Ala Tyr Ile Ala Val Xaa Arg Ala Gly Gly Ile Glu Thr Ile
 1 5 10 15

Ala Asn Glu Phe Ser Asp Arg Cys Thr Pro Ser Val Ile Ser Phe Gly
 20 25 30

Ser Lys Asn Arg Thr Ile Gly Val Ala Ala Lys Asn Gln Gln Ile Thr
 35 40 45

His Ala Asn Asn Thr Val Ser Asn Phe Lys Arg Phe His Gly Arg Ala
 50 55 60

Phe Asn Asp Pro Phe Ile Gln Lys Glu Lys Glu Asn Leu Ser Tyr Asp
 65 70 75 80

Leu Val Pro Leu Lys Asn Gly Gly Val Gly Ile Lys Val Met Tyr Met
 85 90 95

Gly Glu Glu His Leu Phe Ser Val Glu Gln Ile Thr Ala Met Leu Leu
 100 105 110

Thr Lys Leu Lys Glu Thr Ala Glu Asn Ser Leu Lys Lys Pro Val Thr
 115 120 125

Asp Cys Val Ile Ser Val Pro Ser Phe Phe Thr Asp Ala Glu Arg Arg
 130 135 140

Ser Val Leu Asp Ala Ala Gln Ile Val Gly Leu Asn Cys Leu Arg Leu
 145 150 155 160

Met Asn Asp Met Thr Ala Val Ala Leu Asn Tyr Gly Ile Tyr Lys Gln
 165 170 175

Asp Leu Pro Ser Leu Asp Glu Lys Pro Arg Ile Val Val Phe Val Asp
 180 185 190

Met Gly His Ser Ala Phe Gln Val Ser Ala Cys Ala Phe Asn Lys Gly

800

195	200	205
Lys Leu Lys Val Leu Gly Thr Ala Phe Asp Pro Phe Leu Gly Gly Lys		
210	215	220
Asn Phe Asp Glu Lys Leu Val Glu His Phe Cys Ala Glu Phe Lys Thr		
225	230	235 240
Lys Tyr Lys Leu Asp Ala Lys Ser Lys Ile Arg Ala Leu Leu Arg Leu		
	245	250 255
Tyr Gln Glu Cys Glu Lys Leu Lys Lys Leu Met Ser Ser Asn Ser Thr		
	260	265 270
Asp Leu Pro Leu Asn Ile Glu Cys Phe Met Asn Asp Lys Asp Val Ser		
	275	280 285
Gly Lys Met Asn Arg Ser Gln Phe Glu Glu Leu Cys Ala Glu Leu Leu		
	290	295 300
Gln Lys Ile Glu Val Pro Leu Tyr Ser Leu Leu Glu Gln Thr His Leu		
305	310	315 320
Lys Val Glu Asp Val Ser Ala Val Glu Ile Val Gly Gly Ala Thr Arg		
	325	330 335
Ile Pro Ala Val Lys Glu Arg Ile Ala Lys Phe Phe Gly Lys Asp Ile		
	340	345 350
Ser Thr Thr Leu Asn Ala Asp Glu Ala Val Ala Arg Gly Cys Ala Leu		
	355	360 365
Gln Cys Ala Ile Leu Ser Pro Ala Phe Lys Val Arg Glu Phe Ser Val		
	370	375 380
Thr Asp Ala Val Pro Phe Pro Ile Ser Leu Ile Trp Asn His Asp Ser		
385	390	395 400
Glu Asp Thr Glu Gly Val His Glu Val Phe Ser Arg Asn His Ala Ala		
	405	410 415
Pro Phe Ser Lys Val Leu Thr Phe Leu Arg Arg Gly Pro Phe Glu Leu		
	420	425 430
Glu Ala Phe Tyr Ser Asp Pro Gln Gly Val Pro Tyr Pro Glu Ala Lys		
	435	440 445
Ile Gly Arg Phe Val Val Gln Asn Val Ser Ala Gln Lys Asp Gly Glu		
	450	455 460
Lys Ser Arg Val Lys Val Lys Val Arg Val Asn Thr His Gly Ile Phe		

801

465		470		475		480									
Thr	Ile	Ser	Thr	Ala	Ser	Met	Val	Glu	Lys	Val	Pro	Thr	Glu	Glu	Asn
				485					490					495	
Glu	Met	Ser	Ser	Glu	Ala	Asp	Met	Glu	Cys	Leu	Asn	Gln	Arg	Pro	Pro
			500					505					510		
Glu	Asn	Pro	Asp	Thr	Asp	Lys	Asn	Val	Gln	Gln	Asp	Asn	Ser	Glu	Ala
		515					520					525			
Gly	Thr	Gln	Pro	Gln	Val	Gln	Thr	Asp	Ala	Gln	Gln	Thr	Ser	Gln	Ser
	530					535						540			
Pro	Pro	Ser	Pro	Glu	Leu	Thr	Ser	Glu	Glu	Asn	Lys	Ile	Pro	Asp	Ala
545					550					555					560
Asp	Lys	Ala	Asn	Glu	Lys	Lys	Val	Asp	Gln	Pro	Pro	Glu	Ala	Lys	Lys
				565					570					575	
Pro	Lys	Ile	Lys	Val	Val	Asn	Val	Glu	Leu	Pro	Ile	Glu	Ala	Asn	Leu
			580					585						590	
Val	Trp	Gln	Leu	Gly	Lys	Asp	Leu	Leu	Asn	Met	Tyr	Ile	Glu	Thr	Glu
		595					600					605			
Gly	Lys	Met	Ile	Met	Gln	Asp	Lys	Leu	Glu	Lys	Glu	Arg	Asn	Asp	Ala
	610					615						620			
Lys	Asn	Ala	Val	Glu	Glu	Tyr	Val	Tyr	Glu	Phe	Arg	Asp	Lys	Leu	Cys
625					630					635					640
Gly	Pro	Tyr	Glu	Lys	Phe	Ile	Cys	Glu	Gln	Asp	His	Gln	Asn	Phe	Leu
				645					650					655	
Arg	Leu	Leu	Thr	Glu	Thr	Glu	Asp	Trp	Leu	Tyr	Glu	Glu	Gly	Glu	Asp
			660					665						670	
Gln	Ala	Lys	Gln	Ala	Tyr	Val	Asp	Lys	Leu	Glu	Glu	Leu	Met	Lys	Ile
		675					680					685			
Gly	Thr	Pro	Val	Lys	Val	Arg	Phe	Gln	Glu	Ala	Glu	Glu	Arg	Pro	Lys
	690					695						700			
Met	Phe	Glu	Glu	Leu	Gly	Gln	Arg	Leu	Gln	His	Tyr	Ala	Lys	Ile	Ala
705					710					715					720
Ala	Asp	Phe	Arg	Asn	Lys	Asp	Glu	Lys	Tyr	Asn	His	Ile	Asp	Glu	Ser
				725					730					735	
Glu	Met	Lys	Lys	Val	Glu	Lys	Ser	Val	Asn	Glu	Val	Met	Glu	Trp	Met

802

740	745	750
Asn Asn Val Met Asn Ala Gln Ala Lys Lys Ser Leu Asp Gln Asp Pro		
755	760	765
Val Val Arg Ala Gln Glu Ile Lys Thr Lys Ile Lys Glu Leu Asn Asn		
770	775	780
Thr Cys Glu Pro Val Val Thr Gln Pro Lys Pro Lys Ile Glu Ser Pro		
785	790	795
		800
Lys Leu Glu Arg Thr Pro Asn Gly Pro Asn Ile Asp Lys Lys Glu Glu		
	805	810
		815
Asp Leu Glu Asp Lys Asn Asn Phe Gly Ala Glu Pro Pro His Gln Asn		
	820	825
		830
Gly Glu Cys Tyr Pro Asn Glu Lys Asn Ser Val Asn Met Asp Leu Asp		
835	840	845

<210> 767

<211> 306

<212> PRT

<213> Homo sapiens

<400> 767

Ser Ser Cys Cys Pro Leu His Phe Ser Ala Ser Tyr Thr Thr Ala Asn
1 5 10 15
Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu Ser Glu Asp Gly
20 25 30
Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg Lys Asp Ser
35 40 45
Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser Ala Leu Glu
50 55 60
Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu Leu Gln Gln
65 70 75 80
Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg Glu Gly Phe
85 90 95
Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg Gln Asp Phe
100 105 110

803

Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu Leu Thr Glu
 115 120 125

Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys Glu Glu Ala
 130 135 140

Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys His Leu Trp
 145 150 155 160

Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser Ile Gln Arg
 165 170 175

Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp Lys Ala Ile
 180 185 190

Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu Gly Arg Trp
 195 200 205

Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys Thr Ala Thr
 210 215 220

Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu Asp Ala Leu Gln
 225 230 235 240

Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe Ser Lys Ala Gly
 245 250 255

Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly Lys Asn Ser Glu
 260 265 270

Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro Asp Val Thr Lys
 275 280 285

Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu Glu Val Ile Leu
 290 295 300

Arg Asp
 305

<210> 768

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

804

<400> 768

Leu Ser Leu Arg Thr Xaa Glu Thr Pro Ala Pro Pro Arg Cys Glu Ala
 1 5 10 15

Ala Ser Gln Gly Arg Val Gly Trp Arg Ala Asp Ala Ala Ala Glu Glu
 20 25 30

Ala Val Arg Ser Val Trp Asn Arg Thr Arg Asp Arg Gly Thr Met Ala
 35 40 45

Pro Gln Asn Leu Ser Thr Phe Cys Leu Leu Leu Leu Tyr Leu Ile Gly
 50 55 60

Ala Val Ile Ala Gly Arg Asp Phe Tyr Lys Ile Leu Gly Val Pro Arg
 65 70 75 80

Ser Ala Ser Ile Lys Asp Ile Lys Lys Ala Tyr Arg Lys Leu Ala Leu
 85 90 95

Gln Leu His Pro Asp Arg Asn Pro Asp Asp Pro Gln Ala Gln Glu Lys
 100 105 110

Phe Gln Asp Leu Gly Ala Ala Tyr Glu Val Leu Ser Asp Ser Glu Lys
 115 120 125

Arg Lys Gln Tyr Asp Thr Tyr Gly Glu Glu Gly Leu Lys Asp Gly His
 130 135 140

Gln Ser Ser His Gly Asp Ile Phe Ser His Phe Phe Gly Asp Phe Gly
 145 150 155 160

Phe Met Phe Gly Gly Thr Pro Arg Gln Gln Asp Arg Asn Ile Pro Arg
 165 170 175

Gly Ser Asp Ile Ile Val Asp Leu Glu Val Thr Leu Glu Glu Val Tyr
 180 185 190

Ala Gly Asn Phe Val Glu Val Val Arg Asn Lys Pro Val Ala Arg Gln
 195 200 205

Ala Pro Gly Lys Arg Lys Cys Asn Cys Arg Gln Glu Met Arg Thr Thr
 210 215 220

Gln Leu Gly Pro Gly Arg Phe Gln Met Thr Gln Glu Val Val Cys Asp
 225 230 235 240

Glu Cys Pro Asn Val Lys Leu Val Asn Glu Glu Arg Thr Leu Glu Val
 245 250 255

Glu Ile Glu Pro Gly Val Arg Asp Gly Met Glu Tyr Pro Phe Ile Gly

805

260	265	270
Glu Gly Glu Pro His Val Asp Gly Glu Pro Gly Asp Leu Arg Phe Arg		
275	280	285
Ile Lys Val Val Lys His Pro Ile Phe Glu Arg Arg Gly Asp Asp Leu		
290	295	300
Tyr Thr Asn Val Thr Ile Ser Leu Val Glu Ser Leu Val Gly Phe Glu		
305	310	315
Met Asp Ile Thr His Leu Asp Gly His Lys Val His Ile Ser Arg Asp		
325	330	335
Lys Ile Thr Arg Pro Gly Ala Lys Leu Trp Lys Lys Gly Glu Gly Leu		
340	345	350
Pro Asn Phe Asp Asn Asn Asn Ile Lys Gly Ser Leu Ile Ile Thr Phe		
355	360	365
Asp Val Asp Phe Pro Lys Glu Gln Leu Thr Glu Glu Ala Arg Glu Gly		
370	375	380
Ile Lys Gln Leu Leu Lys Gln Gly Ser Val Gln Lys Val Tyr Asn Gly		
385	390	395
400		

Leu Gln Gly Tyr

<210> 769

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 769

Ile Glu Phe Val Phe Leu Glu Pro Trp Val Phe Thr Cys Leu Val Phe
1 5 10 15

Phe Cys Phe Gly Leu Ser Pro Ser Ile Lys Glu Val Tyr Ser Ser Lys

806

	20		25		30										
Lys	Lys	Lys	Lys	Asn	Xaa	Arg	Gly	Gly	Pro	Xaa	Pro	Asn	Ser	Pro	Tyr
	35						40					45			
Ser	Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp
	50					55					60				
Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn	Arg	Leu	Ala	Ala	His	Pro
	65				70					75				80	
Pro	Phe	Ala	Ser	Trp	Arg	Asn	Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro
			85						90					95	
Ser	Gln	Gln	Leu	Arg	Ser	Leu	Asn	Gly	Glu	Trp	Gln	Ile	Val	Ser	Val
			100					105					110		
Asn	Ile	Leu	Val	Lys	Phe	Ala	Leu	Asn	Phe	Trp					
		115						120							

<210> 770

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 770

Xaa	Arg	Gly	Cys	Val	Val	Glu	Gly	Asn	Pro	Val	Leu	Ala	Gly	Ser	Cys
1				5					10					15	
Asp	Ser	Thr	Cys	Ser	His	Leu	Val	Val	Pro	Ile	Leu	Leu	Leu	Val	Ser
			20					25					30		
Leu	Gly	Ser	Ala	Leu	Ala	Cys	Leu	Thr	His	Thr	Pro	Ser	Phe	Met	Leu
		35					40					45			
Ile	Leu	Arg	Gly	Val	Lys	Lys	Glu	Asp	Lys	Thr	Leu	Ala	Val	Gly	Ile
	50					55					60				
Gln	Phe	Met	Phe	Leu	Arg	Ile	Leu	Ala	Trp	Met	Pro	Ser	Pro	Val	Ile
	65				70					75				80	
His	Gly	Ser	Ala	Ile	Asp	Thr	Thr	Cys	Val	His	Trp	Ala	Leu	Ser	Cys
				85					90					95	

807

Gly Arg Arg Ala Val Cys Arg Tyr Tyr Asn Asn Asp Leu Leu Arg Asn
 100 105 110
 Arg Phe Ile Gly Leu Gln Phe Phe Phe Lys Thr Gly Ser Val Ile Cys
 115 120 125
 Phe Ala Leu Val Leu Ala Val Leu Arg Gln Gln Asp Lys Glu Ala Arg
 130 135 140
 Thr Lys Glu Ser Arg Ser Ser Pro Ala Val Glu Gln Gln Leu Leu Val
 145 150 155 160
 Ser Gly Pro Gly Lys Lys Pro Glu Asp Ser Arg Val
 165 170

<210> 771

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 771

Arg Arg Thr Gln Tyr Leu Gly Ser Pro Gly Pro Asp Arg Gly Arg Lys
 1 5 10 15

Gln Arg Ala Xaa Cys Gly Ala Asp Xaa Gly Asp Glu Met Thr Thr Ser
 20 25 30

Thr Leu Gln Lys Ala Ile Asp Leu Val Thr Lys Ala Thr Glu Glu Asp
 35 40 45

Lys Ala Lys Asn Tyr Glu Glu Ala Leu Arg Leu Tyr Gln His Ala Val
 50 55 60

Glu Tyr Phe Leu His Ala Ile Lys Tyr Glu Ala His Ser Asp Lys Ala

808

65		70		75		80									
Lys	Glu	Ser	Ile	Arg	Ala	Lys	Cys	Val	Gln	Tyr	Leu	Asp	Arg	Ala	Glu
				85					90					95	
Lys	Leu	Lys	Asp	Tyr	Leu	Arg	Xaa	Lys	Glu	Lys	His	Gly	Lys	Lys	Pro
		100						105				110			
Val	Lys	Glu	Asn	Gln	Ser	Glu	Gly	Lys	Gly	Ser	Asp	Ser	Asp	Ser	Glu
		115					120				125				
Gly	Asp	Asn	Pro	Glu	Lys	Lys	Lys	Leu	Gln	Glu	Gln	Leu	Met	Gly	Ala
	130					135					140				
Val	Val	Met	Glu	Lys	Pro	Asn	Ile	Arg	Trp	Asn	Asp	Val	Ala	Gly	Leu
145					150					155					160
Glu	Gly	Ala	Lys	Glu	Ala	Leu	Lys	Glu	Ala	Val	Ile	Leu	Pro	Ile	Lys
			165					170						175	
Phe	Pro	His	Leu	Phe	Thr	Gly	Lys	Arg	Thr	Pro	Trp	Arg	Gly	Ile	Leu
			180					185					190		
Leu	Phe	Gly	Pro	Pro	Gly	Thr	Gly	Lys	Ser	Tyr	Leu	Ala	Lys	Ala	Val
		195					200					205			
Ala	Thr	Glu	Ala	Asn	Asn	Ser	Thr	Phe	Phe	Ser	Val	Ser	Ser	Ser	Asp
		210				215					220				
Leu	Met	Ser	Lys	Trp	Leu	Gly	Glu	Ser	Glu	Lys	Leu	Val	Lys	Asn	Leu
225					230					235					240
Phe	Glu	Leu	Ala	Arg	Gln	His	Lys	Pro	Ser	Ile	Ile	Phe	Ile	Asp	Glu
			245						250					255	
Val	Asp	Ser	Leu	Cys	Gly	Ser	Arg	Asn	Glu	Asn	Glu	Ser	Glu	Ala	Ala
			260					265					270		
Arg	Arg	Ile	Lys	Thr	Glu	Phe	Leu	Val	Gln	Met	Gln	Gly	Val	Gly	Asn
		275					280					285			
Asn	Asn	Asp	Gly	Thr	Leu	Val	Leu	Gly	Ala	Thr	Asn	Ile	Pro	Trp	Val
		290					295					300			
Leu	Asp	Ser	Ala	Ile	Arg	Arg	Arg	Phe	Glu	Lys	Arg	Ile	Tyr	Ile	Pro
305					310					315					320
Leu	Pro	Glu	Glu	Ala	Ala	Arg	Ala	Gln	Met	Phe	Arg	Leu	His	Leu	Gly
			325						330					335	
Ser	Thr	Pro	His	Asn	Leu	Thr	Asp	Ala	Asn	Ile	His	Glu	Leu	Ala	Arg

809

340						345						350					
Lys	Thr	Glu	Gly	Tyr	Ser	Gly	Ala	Asp	Ile	Ser	Ile	Ile	Val	Arg	Asp		
355						360						365					
Ser	Leu	Met	Gln	Pro	Val	Arg	Lys	Val	Gln	Ser	Ala	Thr	His	Phe	Lys		
370						375				380							
Lys	Val	Cys	Gly	Pro	Ser	Arg	Thr	Asn	Pro	Ser	Met	Met	Ile	Asp	Asp		
385						390				395				400			
Leu	Leu	Thr	Pro	Cys	Ser	Pro	Gly	Asp	Pro	Gly	Ala	Met	Glu	Met	Thr		
405						410					415						
Trp	Met	Asp	Val	Pro	Gly	Asp	Lys	Leu	Leu	Glu	Pro	Val	Val	Cys	Met		
420						425					430						
Ser	Asp	Met	Leu	Arg	Ser	Leu	Ala	Thr	Thr	Arg	Pro	Thr	Val	Asn	Ala		
435						440				445							
Asp	Asp	Leu	Leu	Lys	Val	Lys	Lys	Phe	Ser	Glu	Asp	Phe	Gly	Gln	Glu		
450						455				460							
Ser																	
465																	

<210> 772

<211> 467

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (445)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 772

Leu Gly Pro Ala Gly Leu Arg Arg Arg Thr Lys Arg Arg Lys Arg Gly
1 5 10 15

810

Asp	Asn	Ser	Thr	Asp	Thr	Thr	Gln	Gly	Asp	Pro	Leu	Ser	Ile	His	His	20	25	30	
Tyr	Phe	His	Gly	Tyr	Leu	Ala	Gly	Phe	Ser	Val	Arg	Ser	Gly	Arg	Leu	35	40	45	
Glu	Ser	Arg	Glu	Val	Ile	Glu	Cys	Leu	Tyr	Ala	Cys	Arg	Glu	Gly	Leu	50	55	60	
Asp	Tyr	Arg	Asp	Phe	Glu	Ser	Leu	Gly	Lys	Gly	Met	Lys	Val	His	Val	65	70	75	80
Asn	Pro	Ser	Gln	Ser	Leu	Leu	Thr	Leu	Glu	Gly	Asp	Asp	Val	Glu	Thr	85	90	95	
Phe	Asn	His	Ala	Leu	Gln	His	Val	Ala	Tyr	Met	Asn	Thr	Leu	Arg	Phe	100	105	110	
Ala	Thr	Pro	Gly	Val	Arg	Pro	Leu	Arg	Leu	Thr	Thr	Ala	Val	Lys	Cys	115	120	125	
Phe	Ser	Glu	Glu	Ser	Cys	Val	Ser	Ile	Pro	Glu	Val	Glu	Gly	Tyr	Val	130	135	140	
Val	Val	Leu	Gln	Pro	Asp	Xaa	Pro	Gln	Ile	Leu	Leu	Ser	Gly	Thr	Xaa	145	150	155	160
His	Phe	Ala	Arg	Pro	Ala	Val	Asp	Phe	Glu	Gly	Thr	Asn	Gly	Val	Pro	165	170	175	
Leu	Phe	Pro	Asp	Leu	Gln	Ile	Thr	Cys	Ser	Ile	Ser	His	Gln	Val	Glu	180	185	190	
Ala	Lys	Lys	Asp	Glu	Ser	Trp	Gln	Gly	Thr	Val	Thr	Asp	Thr	Arg	Met	195	200	205	
Ser	Asp	Glu	Ile	Val	His	Asn	Leu	Asp	Gly	Cys	Glu	Ile	Ser	Leu	Val	210	215	220	
Gly	Asp	Asp	Leu	Asp	Pro	Glu	Arg	Glu	Ser	Leu	Leu	Leu	Asp	Thr	Thr	225	230	235	240
Ser	Leu	Gln	Gln	Arg	Gly	Leu	Glu	Leu	Thr	Asn	Thr	Ser	Ala	Tyr	Leu	245	250	255	
Thr	Ile	Ala	Gly	Val	Glu	Ser	Ile	Thr	Val	Tyr	Glu	Glu	Ile	Leu	Arg	260	265	270	
Gln	Ala	Arg	Tyr	Arg	Leu	Arg	His	Gly	Ala	Ala	Leu	Tyr	Thr	Arg	Lys	275	280	285	

811

Phe Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu
 290 295 300

Phe Ile Val Glu Val Asn Val Leu His Ser Met Asn Arg Val Ala His
 305 310 315 320

Pro Ser His Val Leu Ser Ser Gln Gln Phe Leu His Arg Gly His Gln
 325 330 335

Pro Pro Pro Glu Met Ala Gly His Ser Leu Ala Ser Ser His Arg Asn
 340 345 350

Ser Met Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly
 355 360 365

Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg Ile His Ser Leu
 370 375 380

His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly Ala Ser Ser Asp
 385 390 395 400

Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala Leu Thr Ile Ile
 405 410 415

Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser Cys Val Thr Gly
 420 425 430

Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser Xaa Ser Glu Val
 435 440 445

Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile Glu Thr Pro Pro
 450 455 460

His Arg Tyr
 465

<210> 773

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 773

Phe	Phe	Lys	Ser	Ile	Val	Asn	Ile	Arg	Ile	Ile	Xaa	Lys	Ser	Asn	Phe
1				5					10					15	

Lys	Leu	Gln	His	Ile	Ala	Ser	Lys	Gln	Tyr	Arg	Asp	Phe	Xaa	Ile	Pro
		20					25						30		

Tyr	Lys	Xaa	Xaa	Trp	Leu	Lys	Xaa	Xaa	Ile	His	Ile	Lys	Leu	Ile	Leu
	35					40						45			

Phe	Phe	Ala	Cys	Leu	Phe	Cys	Val	Leu	Val	Ala	Ser	Leu	Lys	Phe	Asp
	50					55						60			

Leu	Xaa	Leu	Leu	Phe	Val	Xaa	Gln	Ile	His
65						70			

813

<210> 774

<211> 492

<212> PRT

<213> Homo sapiens

<400> 774

Gly Ala Ser Trp Arg Ala Arg Thr Arg Gly Ser Arg Asp Asp Pro Ser
 1 5 10 15

Arg Ala Ala Ala Val Pro Ala Ala Ala Ala Ala Ala Val
 20 25 30

Ser Trp Ala Ser Arg Gly Glu Ala Ala Pro Asp Gln Asp Glu Ile Gln
 35 40 45

Arg Leu Pro Gly Leu Ala Lys Gln Pro Ser Phe Arg Gln Tyr Ser Gly
 50 55 60

Tyr Leu Lys Gly Ser Gly Ser Lys His Leu His Tyr Trp Phe Val Glu
 65 70 75 80

Ser Gln Lys Asp Pro Glu Asn Ser Pro Val Val Leu Trp Leu Asn Gly
 85 90 95

Gly Pro Gly Cys Ser Ser Leu Asp Gly Leu Leu Thr Glu His Gly Pro
 100 105 110

Phe Leu Val Gln Pro Asp Gly Val Thr Leu Glu Tyr Asn Pro Tyr Ser
 115 120 125

Trp Asn Leu Ile Ala Asn Val Leu Tyr Leu Glu Ser Pro Ala Gly Val
 130 135 140

Gly Phe Ser Tyr Ser Asp Asp Lys Phe Tyr Ala Thr Asn Asp Thr Glu
 145 150 155 160

Val Ala Gln Ser Asn Phe Glu Ala Leu Gln Asp Phe Phe Arg Leu Phe
 165 170 175

Pro Glu Tyr Lys Asn Asn Lys Leu Phe Leu Thr Gly Glu Ser Tyr Ala
 180 185 190

Gly Ile Tyr Ile Pro Thr Leu Ala Val Leu Val Met Gln Asp Pro Ser
 195 200 205

Met Asn Leu Gln Gly Leu Ala Val Gly Asn Gly Leu Ser Ser Tyr Glu
 210 215 220

Gln Asn Asp Asn Ser Leu Val Tyr Phe Ala Tyr Tyr His Gly Leu Leu
 225 230 235 240

814

Gly Asn Arg Leu Trp Ser Ser Leu Gln Thr His Cys Cys Ser Gln Asn
 245 250 255
 Lys Cys Asn Phe Tyr Asp Asn Lys Asp Leu Glu Cys Val Thr Asn Leu
 260 265 270
 Gln Glu Val Ala Arg Ile Val Gly Asn Ser Gly Leu Asn Ile Tyr Asn
 275 280 285
 Leu Tyr Ala Pro Cys Ala Gly Gly Val Pro Ser His Phe Arg Tyr Glu
 290 295 300
 Lys Asp Thr Val Val Val Gln Asp Leu Gly Asn Ile Phe Thr Arg Leu
 305 310 315 320
 Pro Leu Lys Arg Met Trp His Gln Ala Leu Leu Arg Ser Gly Asp Lys
 325 330 335
 Val Arg Met Asp Pro Pro Cys Thr Asn Thr Thr Ala Ala Ser Thr Tyr
 340 345 350
 Leu Asn Asn Pro Tyr Val Arg Lys Ala Leu Asn Ile Pro Glu Gln Leu
 355 360 365
 Pro Gln Trp Asp Met Cys Asn Phe Leu Val Asn Leu Gln Tyr Arg Arg
 370 375 380
 Leu Tyr Arg Ser Met Asn Ser Gln Tyr Leu Lys Leu Leu Ser Ser Gln
 385 390 395 400
 Lys Tyr Gln Ile Leu Leu Tyr Asn Gly Asp Val Asp Met Ala Cys Asn
 405 410 415
 Phe Met Gly Asp Glu Trp Phe Val Asp Ser Leu Asn Gln Lys Met Glu
 420 425 430
 Val Gln Arg Arg Pro Trp Leu Val Lys Tyr Gly Asp Ser Gly Glu Gln
 435 440 445
 Ile Ala Gly Phe Val Lys Glu Phe Ser His Ile Ala Phe Leu Thr Ile
 450 455 460
 Lys Gly Ala Gly His Met Val Pro Thr Asp Lys Pro Leu Ala Ala Phe
 465 470 475 480
 Thr Met Phe Ser Arg Phe Leu Asn Lys Gln Pro Tyr
 485 490

<210> 775

815

<211> 464

<212> PRT

<213> Homo sapiens

<400> 775

Pro Val Gly Pro Gly Gly Pro Gln Arg Arg Ala Arg Ala Pro Gln Asp
 1 5 10 15

Ala Arg Thr Cys Ser Gln Ala Gly Pro Ala Ser His Ala Glu Ser Tyr
 20 25 30

Asn Pro Pro Pro Glu Tyr Leu Leu Ser Glu Glu Glu Arg Leu Ala Trp
 35 40 45

Glu Gln Gln Glu Pro Gly Glu Arg Lys Leu Ser Phe Leu Pro Arg Lys
 50 55 60

Phe Pro Ser Leu Arg Ala Val Pro Ala Tyr Gly Arg Phe Ile Gln Glu
 65 70 75 80

Arg Phe Glu Arg Cys Leu Asp Leu Tyr Leu Cys Pro Arg Gln Arg Lys
 85 90 95

Met Arg Val Asn Val Asp Pro Glu Asp Leu Ile Pro Lys Leu Pro Arg
 100 105 110

Pro Arg Asp Leu Gln Pro Phe Pro Thr Cys Gln Ala Leu Val Tyr Arg
 115 120 125

Gly His Ser Asp Leu Val Arg Cys Leu Ser Val Ser Pro Gly Gly Gln
 130 135 140

Trp Leu Val Ser Gly Ser Asp Asp Gly Ser Leu Arg Leu Trp Glu Val
 145 150 155 160

Ala Thr Ala Arg Cys Val Arg Thr Val Pro Val Gly Gly Val Val Lys
 165 170 175

Ser Val Ala Trp Asn Pro Ser Pro Ala Val Cys Leu Val Ala Ala Ala
 180 185 190

Val Glu Asp Ser Val Leu Leu Leu Asn Pro Ala Leu Gly Asp Arg Leu
 195 200 205

Val Ala Gly Ser Thr Asp Gln Leu Leu Ser Ala Phe Val Pro Pro Glu
 210 215 220

Glu Pro Pro Leu Gln Pro Ala Arg Trp Leu Glu Ala Ser Glu Glu Glu
 225 230 235 240

Arg Gln Val Gly Leu Arg Leu Arg Ile Cys His Gly Lys Pro Val Thr

816

	245		250		255
Gln Val Thr Trp His Gly Arg Gly Asp Tyr Leu Ala Val Val Leu Ala	260		265		270
Thr Gln Gly His Thr Gln Val Leu Ile His Gln Leu Ser Arg Arg Arg	275		280		285
Ser Gln Ser Pro Phe Arg Arg Ser His Gly Gln Val Gln Arg Val Ala	290		295		300
Phe His Pro Ala Arg Pro Phe Leu Leu Val Ala Ser Gln Arg Ser Val	305		310		315
Arg Leu Tyr His Leu Leu Arg Gln Glu Leu Thr Lys Lys Leu Met Pro	325		330		335
Asn Cys Lys Trp Val Ser Ser Leu Ala Val His Pro Ala Gly Asp Asn	340		345		350
Val Ile Cys Gly Ser Tyr Asp Ser Lys Leu Val Trp Phe Asp Leu Asp	355		360		365
Leu Ser Thr Lys Pro Tyr Arg Met Leu Arg His His Lys Lys Ala Leu	370		375		380
Arg Ala Val Ala Phe His Pro Arg Tyr Pro Leu Phe Ala Ser Gly Ser	385		390		395
Asp Asp Gly Ser Val Ile Val Cys His Gly Met Val Tyr Asn Asp Leu	405		410		415
Leu Gln Asn Pro Leu Leu Val Pro Val Lys Val Leu Lys Gly His Val	420		425		430
Leu Thr Arg Asp Leu Gly Val Leu Asp Val Ile Phe His Pro Thr Gln	435		440		445
Pro Trp Val Phe Ser Ser Gly Ala Asp Gly Thr Val Arg Leu Phe Thr	450		455		460

<210> 776

<211> 339

<212> PRT

<213> Homo sapiens

817

<400> 776

Val	Val	Asn	Ser	Ser	Phe	Pro	Ala	Thr	Arg	Asn	Arg	Thr	Val	Gly	Thr
1				5					10					15	
Ile	Ser	Lys	His	Leu	Asp	Trp	His	Arg	Lys	Glu	Glu	Lys	Glu	His	Leu
			20					25					30		
Lys	Gly	Val	Gln	Asp	Pro	Gln	His	Glu	Arg	Ile	Ile	Thr	Val	Ser	Thr
		35					40					45			
Asn	Gly	Ser	Ile	His	Ser	Pro	Arg	Phe	Pro	His	Thr	Tyr	Pro	Arg	Asn
	50					55					60				
Thr	Val	Leu	Val	Trp	Arg	Leu	Val	Ala	Val	Glu	Glu	Asn	Val	Trp	Ile
65					70					75					80
Gln	Leu	Thr	Phe	Asp	Glu	Arg	Phe	Gly	Leu	Glu	Asp	Pro	Glu	Asp	Asp
				85					90					95	
Ile	Cys	Lys	Tyr	Asp	Phe	Val	Glu	Val	Glu	Glu	Pro	Ser	Asp	Gly	Thr
			100					105					110		
Ile	Leu	Gly	Arg	Trp	Cys	Gly	Ser	Gly	Thr	Val	Pro	Gly	Lys	Gln	Ile
		115					120						125		
Ser	Lys	Gly	Asn	Gln	Ile	Arg	Ile	Arg	Phe	Val	Ser	Asp	Glu	Tyr	Phe
	130					135					140				
Pro	Ser	Glu	Pro	Gly	Phe	Cys	Ile	His	Tyr	Asn	Ile	Val	Met	Pro	Gln
145					150					155					160
Phe	Thr	Glu	Ala	Val	Ser	Pro	Ser	Val	Leu	Pro	Pro	Ser	Ala	Leu	Pro
				165					170					175	
Leu	Asp	Leu	Leu	Asn	Asn	Ala	Ile	Thr	Ala	Phe	Ser	Thr	Leu	Glu	Asp
		180						185					190		
Leu	Ile	Arg	Tyr	Leu	Glu	Pro	Glu	Arg	Trp	Gln	Leu	Asp	Leu	Glu	Asp
		195					200					205			
Leu	Tyr	Arg	Pro	Thr	Trp	Gln	Leu	Leu	Gly	Lys	Ala	Phe	Val	Phe	Gly
	210					215					220				
Arg	Lys	Ser	Arg	Val	Val	Asp	Leu	Asn	Leu	Leu	Thr	Glu	Glu	Val	Arg
225					230					235					240
Leu	Tyr	Ser	Cys	Thr	Pro	Arg	Asn	Phe	Ser	Val	Ser	Ile	Arg	Glu	Glu
				245					250					255	
Leu	Lys	Arg	Thr	Asp	Thr	Ile	Phe	Trp	Pro	Gly	Cys	Leu	Leu	Val	Lys
			260					265						270	

```
<210> 777
<211> 194
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 777
Pro Arg Arg Phe Gln Arg Gly Gly Ser Thr Pro Arg Val Gly Val Cys
1 5 10 15

Ala Arg Pro Gly Pro Xaa Gly His Val Ala Pro Gly Gly Glu Arg Met
20 25 30

Ser Phe Arg Gly Gly Gly Arg Gly Gly Phe Asn Arg Gly Gly Gly Gly
35 40 45

Gly Gly Phe Asn Arg Gly Gly Ser Ser Asn His Phe Arg Gly Gly Gly
50 55 60

Gly Gly Gly Gly Gly Gly Asn Phe Arg Gly Gly Gly Arg Gly Gly Phe
65 70 75 80

Gly Arg Gly Gly Gly Arg Gly Gly Phe Asn Lys Gly Gln Asp Gln Gly
85 90 95

819

Pro Pro Glu Arg Val Val Leu Leu Gly Glu Phe Leu His Pro Cys Glu
 100 105 110

Asp Asp Ile Val Cys Lys Cys Thr Thr Asp Glu Asn Lys Val Pro Tyr
 115 120 125

Phe Asn Ala Pro Val Tyr Leu Glu Asn Lys Glu Gln Ile Gly Lys Val
 130 135 140

Asp Glu Ile Phe Gly Gln Leu Arg Asp Phe Xaa Phe Ser Val Lys Leu
 145 150 155 160

Ser Glu Asn Met Lys Ala Ser Ser Phe Lys Lys Leu Gln Lys Phe Tyr
 165 170 175

Ile Asp Pro Tyr Lys Leu Leu Pro Leu Gln Arg Trp Trp Gln Arg Arg
 180 185 190

Trp Phe

<210> 778

<211> 117

<212> PRT

<213> Homo sapiens

<400> 778

Ala Gly Ala Val Ile Ile Gly Phe Arg Ser Lys Ile Lys Asn Ala Leu
 1 5 10 15

Ala His Phe Leu Pro Gln Gly Thr Pro Thr Pro Leu Ile Pro Ile Leu
 20 25 30

Val Ile Ile Glu Thr Ile Ser Leu Leu Ile Gln Pro Ile Ala Leu Ala
 35 40 45

Val Arg Leu Thr Ala Asn Ile Thr Ala Gly His Leu Leu Met His Leu
 50 55 60

Ile Gly Ser Ala Thr Leu Ala Ile Ser Thr Ile Asn Leu Pro Ser Thr
 65 70 75 80

Leu Ile Ile Phe Thr Ile Leu Ile Leu Leu Thr Ile Leu Glu Ile Ala
 85 90 95

Val Ala Leu Ile Gln Ala Tyr Val Phe Thr Leu Leu Val Ser Leu Tyr
 100 105 110

820

Leu His Asp Asn Thr
115

<210> 779

<211> 429

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (388)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 779

Gly Gly Arg Thr Xaa Ser Ser Pro Glu Lys Asp Pro Xaa Ala Arg Val
1 5 10 15

Pro Ser Ser Gly Phe Pro Asn Pro Gly Asp Ser Ala Pro Gly Arg Cys
20 25 30

Tyr Gly Arg His Phe His Ser Val Pro Gly Gly Gln Arg Ser Arg Arg
35 40 45

Ser Pro Val Ala Gly Gln His Gly Glu Arg Pro Gln Pro Gly Leu Leu
50 55 60

Gln Tyr Lys Ala Asp Ile Asn Ala Val Asn Glu His Gly Asn Val Pro
65 70 75 80

Leu His Tyr Ala Cys Phe Trp Gly Gln Asp Gln Val Ala Glu Asp Leu
85 90 95

Val Ala Asn Gly Ala Leu Val Ser Ile Cys Asn Lys Tyr Gly Glu Met
100 105 110

Pro Val Asp Lys Ala Lys Ala Pro Leu Arg Glu Leu Leu Arg Glu Arg
115 120 125

Ala Glu Lys Met Gly Gln Asn Leu Asn Arg Ile Pro Tyr Lys Asp Thr

821

130		135		140
Phe Trp Lys Gly Thr Thr Arg Thr Arg Pro Arg Asn Gly Thr Leu Asn				
145		150		155 160
Lys His Ser Gly Ile Asp Phe Lys Gln Leu Asn Phe Leu Thr Lys Leu				
	165		170	175
Asn Glu Asn His Ser Gly Glu Leu Trp Lys Gly Arg Trp Gln Gly Asn				
	180		185	190
Asp Ile Val Val Lys Val Leu Lys Val Arg Asp Trp Ser Thr Arg Lys				
	195		200	205
Ser Arg Asp Phe Asn Glu Glu Cys Pro Arg Leu Arg Ile Phe Ser His				
	210		215	220
Pro Asn Val Leu Pro Val Leu Gly Ala Cys Gln Ser Pro Pro Ala Pro				
	225		230	235 240
His Pro Thr Leu Ile Thr His Trp Met Pro Tyr Gly Ser Leu Tyr Asn				
	245		250	255
Val Leu His Glu Gly Thr Asn Phe Val Val Asp Gln Ser Gln Ala Val				
	260		265	270
Lys Phe Ala Leu Asp Met Ala Arg Gly Met Ala Phe Leu His Thr Leu				
	275		280	285
Glu Pro Leu Ile Pro Arg His Ala Leu Asn Ser Arg Ser Val Met Ile				
	290		295	300
Asp Glu Asp Met Thr Ala Arg Ile Ser Met Ala Asp Val Lys Phe Ser				
	305		310	315 320
Phe Gln Cys Pro Gly Arg Met Tyr Ala Pro Ala Trp Val Ala Pro Glu				
	325		330	335
Ala Leu Gln Lys Lys Pro Glu Asp Thr Asn Arg Arg Ser Ala Asp Met				
	340		345	350
Trp Ser Phe Ala Val Leu Leu Trp Glu Leu Val Thr Arg Glu Val Pro				
	355		360	365
Phe Ala Asp Leu Ser Asn Met Glu Ile Gly Met Lys Val Ala Leu Glu				
	370		375	380
Gly Leu Arg Xaa Thr Ile Pro Pro Gly Ile Ser Pro His Val Cys Lys				
	385		390	395 400
Leu Met Lys Ile Cys Met Asn Glu Asp Pro Ala Lys Arg Pro Lys Phe				

822

405 410 415
 Asp Met Ile Val Pro Ile Leu Glu Lys Met Gln Asp Lys
 420 425

 <210> 780
 <211> 793
 <212> PRT
 <213> Homo sapiens

 <400> 780
 Gly Ser Leu Ala Ala Arg Pro Arg His Thr Arg Ser Pro Gly Leu Ser
 1 5 10 15
 Ala Ser Ala Gly Glu Thr Ala Met Ala Gln Trp Asn Gln Leu Gln Gln
 20 25 30
 Leu Asp Thr Arg Tyr Leu Glu Gln Leu His Gln Leu Tyr Ser Asp Ser
 35 40 45
 Phe Pro Met Glu Leu Arg Gln Phe Leu Ala Pro Trp Ile Glu Ser Gln
 50 55 60
 Asp Trp Ala Tyr Ala Ala Ser Lys Glu Ser His Ala Thr Leu Val Phe
 65 70 75 80
 His Asn Leu Leu Gly Glu Ile Asp Gln Gln Tyr Ser Arg Phe Leu Gln
 85 90 95
 Glu Ser Asn Val Leu Tyr Gln His Asn Leu Arg Arg Ile Lys Gln Phe
 100 105 110
 Leu Gln Ser Arg Tyr Leu Glu Lys Pro Met Glu Ile Ala Arg Ile Val
 115 120 125
 Ala Arg Cys Leu Trp Glu Glu Ser Arg Leu Leu Gln Thr Ala Ala Thr
 130 135 140
 Ala Ala Gln Gln Gly Gly Gln Ala Asn His Pro Thr Ala Ala Val Val
 145 150 155 160
 Thr Glu Lys Gln Gln Met Leu Glu Gln His Leu Gln Asp Val Arg Lys
 165 170 175
 Arg Val Gln Asp Leu Glu Gln Lys Met Lys Val Val Glu Asn Leu Gln
 180 185 190
 Asp Asp Phe Asp Phe Asn Tyr Lys Thr Leu Lys Ser Gln Gly Asp Met
 195 200 205

823

Gln Asp Leu Asn Gly Asn Asn Gln Ser Val Thr Arg Gln Lys Met Gln
 210 215 220

Gln Leu Glu Gln Met Leu Thr Ala Leu Asp Gln Met Arg Arg Ser Ile
 225 230 235 240

Val Ser Glu Leu Ala Gly Leu Leu Ser Ala Met Glu Tyr Val Gln Lys
 245 250 255

Thr Leu Thr Asp Glu Glu Leu Ala Asp Trp Lys Arg Arg Gln Gln Ile
 260 265 270

Ala Cys Ile Gly Gly Pro Pro Asn Ile Cys Leu Asp Arg Leu Glu Asn
 275 280 285

Trp Ile Thr Ser Leu Ala Glu Ser Gln Leu Gln Thr Arg Gln Gln Ile
 290 295 300

Lys Lys Leu Glu Glu Leu Gln Gln Lys Val Ser Tyr Lys Gly Asp Pro
 305 310 315 320

Ile Val Gln His Arg Pro Met Leu Glu Glu Arg Ile Val Glu Leu Phe
 325 330 335

Arg Asn Leu Met Lys Ser Ala Phe Val Val Glu Arg Gln Pro Cys Met
 340 345 350

Pro Met His Pro Asp Arg Pro Leu Val Ile Lys Thr Gly Val Gln Phe
 355 360 365

Thr Thr Lys Val Arg Leu Leu Val Lys Phe Pro Glu Leu Asn Tyr Gln
 370 375 380

Leu Lys Ile Lys Val Cys Ile Asp Lys Asp Ser Gly Asp Val Ala Ala
 385 390 395 400

Leu Arg Gly Ser Arg Lys Phe Asn Ile Leu Gly Thr Asn Thr Lys Val
 405 410 415

Met Asn Met Glu Glu Ser Asn Asn Gly Ser Leu Ser Ala Glu Phe Lys
 420 425 430

His Leu Thr Leu Arg Glu Gln Arg Cys Gly Asn Gly Gly Arg Ala Asn
 435 440 445

Cys Asp Ala Ser Leu Ile Val Thr Glu Glu Leu His Leu Ile Thr Phe
 450 455 460

Glu Thr Glu Val Tyr His Gln Gly Leu Lys Ile Asp Leu Glu Thr His
 465 470 475 480

824

```

Ser Leu Pro Val Val Val Ile Ser Asn Ile Cys Gln Met Pro Asn Ala
      485                      490                      495

Trp Ala Ser Ile Leu Trp Tyr Asn Met Leu Thr Asn Asn Pro Lys Asn
      500                      505                      510

Val Asn Phe Phe Thr Lys Pro Pro Ile Gly Thr Trp Asp Gln Val Ala
      515                      520                      525

Glu Val Leu Ser Trp Gln Phe Ser Ser Thr Thr Lys Arg Gly Leu Ser
      530                      535                      540

Ile Glu Gln Leu Thr Thr Leu Ala Glu Lys Leu Leu Gly Pro Gly Val
545                      550                      555                      560

Asn Tyr Ser Gly Cys Gln Ile Thr Trp Ala Lys Phe Cys Lys Glu Asn
      565                      570                      575

Met Ala Gly Lys Gly Phe Ser Phe Trp Val Trp Leu Asp Asn Ile Ile
      580                      585                      590

Asp Leu Val Lys Lys Tyr Ile Leu Ala Leu Trp Asn Glu Gly Tyr Ile
      595                      600                      605

Met Gly Phe Ile Ser Lys Glu Arg Glu Arg Ala Ile Leu Ser Thr Lys
      610                      615                      620

Pro Pro Gly Thr Phe Leu Leu Arg Phe Ser Glu Ser Ser Lys Glu Gly
625                      630                      635                      640

Gly Val Thr Phe Thr Trp Val Glu Lys Asp Ile Ser Gly Lys Thr Gln
      645                      650                      655

Ile Gln Ser Val Glu Pro Tyr Thr Lys Gln Gln Leu Asn Asn Met Ser
      660                      665                      670

Phe Ala Glu Ile Ile Met Gly Tyr Lys Ile Met Asp Ala Thr Asn Ile
      675                      680                      685

Leu Val Ser Pro Leu Val Tyr Leu Tyr Pro Asp Ile Pro Lys Glu Glu
      690                      695                      700

Ala Phe Gly Lys Tyr Cys Arg Pro Glu Ser Gln Glu His Pro Glu Ala
705                      710                      715                      720

Asp Pro Gly Ser Ala Ala Pro Tyr Leu Lys Thr Lys Phe Ile Cys Val
      725                      730                      735

Thr Pro Thr Thr Cys Ser Asn Thr Ile Asp Leu Pro Met Ser Pro Arg
      740                      745                      750

```

825

Thr Leu Asp Ser Leu Met Gln Phe Gly Asn Asn Gly Glu Gly Ala Glu
 755 760 765

Pro Ser Ala Gly Gly Gln Phe Glu Ser Leu Thr Phe Asp Met Glu Leu
 770 775 780

Thr Ser Glu Cys Ala Thr Ser Pro Met
 785 790

<210> 781

<211> 338

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (313)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (319)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 781

Val Ser Leu Pro Val Val Pro Ala Ser Phe Ser Phe Pro Pro Cys Pro
 1 5 10 15

Ala Ala Gly Pro Gly Gln Pro Gly Ser Gly Trp Gly Gly Val Leu Pro
 20 25 30

Ser Ser Ser Trp Asp Ile Ala Arg Val Arg Ser Thr Pro Ser Gln Pro
 35 40 45

Leu Leu Trp Ser Pro Val Gly Arg Gly Ala Ala Ile Leu Val Ala Arg
 50 55 60

Gly Val Ser Arg Ile Arg Arg Val Ser Leu Pro Ser Arg Trp Arg Gly
 65 70 75 80

Leu Cys Pro Cys Ser Val Thr Ala Ala Leu Gly Lys Arg Ser Ala Pro
 85 90 95

Lys Thr Asp Val Thr Ile Thr Asn Asp Gly Ala Thr Ile Leu Lys Leu
 100 105 110

Leu Glu Val Glu His Pro Ala Ala Lys Val Leu Cys Glu Leu Ala Asp
 115 120 125

826

Leu Gln Asp Lys Glu Val Gly Asp Gly Thr Thr Ser Val Val Ile Ile
 130 135 140

Ala Ala Glu Leu Leu Lys Asn Ala Asp Glu Leu Val Lys Gln Lys Ile
 145 150 155 160

His Pro Thr Ser Val Ile Ser Gly Tyr Arg Leu Ala Cys Lys Glu Ala
 165 170 175

Val Arg Tyr Ile Asn Glu Asn Leu Ile Val Asn Thr Asp Glu Leu Gly
 180 185 190

Arg Asp Cys Leu Ile Asn Ala Ala Lys Thr Ser Met Ser Ser Lys Ile
 195 200 205

Ile Gly Ile Asn Gly Asp Phe Phe Ala Asn Met Val Val Asp Ala Val
 210 215 220

Leu Ala Ile Lys Tyr Thr Asp Ile Arg Gly Gln Pro Arg Tyr Pro Val
 225 230 235 240

Asn Ser Val Asn Ile Leu Lys Ala His Gly Arg Ser Gln Met Glu Ser
 245 250 255

Met Leu Ile Ser Gly Tyr Ala Leu Asn Cys Val Val Gly Ser Gln Gly
 260 265 270

Met Pro Lys Arg Ile Val Asn Ala Lys Ile Ala Cys Leu Asp Phe Ser
 275 280 285

Leu Gln Lys Thr Lys Met Lys Leu Gly Val Gln Val Val Ile Thr Asp
 290 295 300

Pro Glu Lys Leu Asp Gln Ile Arg Xaa Ser Asn Tyr Ser Val Xaa Pro
 305 310 315 320

Gly Pro Ile Trp Lys Val Lys Lys Leu Leu Lys Cys Asn Val Gly Thr
 325 330 335

Gly Arg

<210> 782

<211> 100

<212> PRT

<213> Homo sapiens

<400> 782

827

Ile Leu His Leu Asn Ala Leu Met Lys Asn Lys Ala Lys Thr Arg Val
 1 5 10 15
 Leu Gly His Ser Ser Ala Gln Arg Val Pro Gly Asp Gly Arg Pro Leu
 20 25 30
 Ser Pro His Pro Leu Thr Leu Glu Asn Trp Val Phe Ser Gln Tyr Ser
 35 40 45
 Ser Asn Ser Phe Leu Lys Ala Val Glu Pro Leu Tyr Ser Lys Val His
 50 55 60
 Cys Arg Cys Ser Asn Ser Pro Phe Leu Phe Pro Leu Pro Pro Ala Ser
 65 70 75 80
 Phe Ala Asp Ser Gln Leu Val Met Ser Val Ser Ile Lys Asp Ile Met
 85 90 95
 Leu Leu Arg Phe
 100

<210> 783
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 783
 Phe Gly Arg Ala Ile Ala Arg Val Thr Gly Asn Pro Val Gln Gly Ala
 1 5 10 15
 Pro Pro Ser Trp Thr Ser Pro Arg Lys Ile Leu Arg Glu His Arg Ser
 20 25 30
 Ser His Arg Cys His Cys Tyr Cys Arg Tyr Cys Cys Arg Arg Val Cys
 35 40 45
 Thr Ser Arg Pro Ala Ser Val Pro Ala Gly Ala Ser Val Asp Arg Pro
 50 55 60
 Arg Pro Leu Ser Arg Cys Val Arg Thr Pro Val Pro Gly Pro Asp Ala
 65 70 75 80
 Pro Leu Pro Pro Gly Lys Leu Pro Ser His Gln Gln Pro Pro Ser Ala
 85 90 95
 Thr Met Ala Thr Ala Pro Tyr Asn Tyr Ser Tyr Ile Phe Lys Tyr Ile
 100 105 110
 Ile Ile Gly Asp Met Gly Val Gly Lys Ser Cys Leu Leu His Gln Phe

828

115	120	125
Thr Glu Lys Lys Phe Met Ala Asp Cys Pro His Thr Ile Gly Val Glu		
130	135	140
Phe Gly Thr Arg Ile Ile Glu Val Ser Gly Gln Lys Ile Lys Leu Gln		
145	150	155
Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Ala Val Thr Arg Ser		
	165	170
		175
Tyr Tyr Arg Gly Ala Ala Gly Ala Leu Met Val Tyr Asp Ile Thr Arg		
	180	185
		190
Arg Ser Thr Tyr Asn His Leu Ser Ser Trp Leu Thr Asp Ala Arg Asn		
	195	200
		205
Leu Thr Asn Pro Asn Thr Val Ile Ile Leu Ile Gly Asn Lys Ala Asp		
	210	215
		220
Leu Glu Ala Gln Arg Asp Val Thr Tyr Glu Glu Ala Lys Gln Phe Ala		
225	230	235
		240
Glu Glu Asn Gly Leu Leu Phe Leu Glu Ala Ser Ala Lys Thr Gly Glu		
	245	250
		255
Asn Val Glu Asp Ala Phe Leu Glu Ala Ala Lys Lys Ile Tyr Gln Asn		
	260	265
		270
Ile Gln Asp Gly Ser Leu Asp Leu Asn Ala Ala Glu Ser Gly Val Gln		
	275	280
		285
His Lys Pro Ser Ala Pro Gln Gly Gly Arg Leu Thr Ser Glu Pro Gln		
	290	295
		300
Pro Gln Arg Glu Gly Cys Gly Cys		
305	310	

<210> 784

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

829

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 784

Arg Gly Pro Ala Leu Arg Ala Ala Xaa Thr Ile Lys Trp Arg Val Leu
 1 5 10 15

Gln Pro Ala Pro Ala Ser Glu Arg Glu Met Leu Gly Cys Ser Phe Lys
 20 25 30

Leu Arg Thr Thr His His Ala Tyr Pro Gly Ala Glu Gly Pro Asp His
 35 40 45

His Ser Leu Arg Thr Glu Glu Ala Ala Cys Tyr Ser Trp Cys Cys Ile
 50 55 60

Pro Pro Asp Xaa Leu Leu Phe Pro Gly
 65 70

<210> 785

<211> 517

<212> PRT

<213> Homo sapiens

<400> 785

Gly Lys Arg Glu Gly Ala Gly Glu Arg Asp Gln Gly Arg Arg Arg Gly
 1 5 10 15

Glu Ser Arg Glu Gly Trp Ser Phe Gly Glu Ser Leu Trp Lys Met Ala
 20 25 30

Pro Val Val Thr Gly Lys Phe Gly Glu Arg Pro Pro Pro Lys Arg Leu
 35 40 45

Thr Arg Glu Ala Met Arg Asn Tyr Leu Lys Glu Arg Gly Asp Gln Thr
 50 55 60

Val Leu Ile Leu His Ala Lys Val Ala Gln Lys Ser Tyr Gly Asn Glu
 65 70 75 80

Lys Arg Phe Phe Cys Pro Pro Pro Cys Val Tyr Leu Met Gly Ser Gly
 85 90 95

Trp Lys Lys Lys Lys Glu Gln Met Glu Arg Asp Gly Cys Ser Glu Gln
 100 105 110

Glu Ser Gln Pro Cys Ala Phe Ile Gly Ile Gly Asn Ser Asp Gln Glu
 115 120 125

830

Met	Gln	Gln	Leu	Asn	Leu	Glu	Gly	Lys	Asn	Tyr	Cys	Thr	Ala	Lys	Thr	130	135	140
Leu	Tyr	Ile	Ser	Asp	Ser	Asp	Lys	Arg	Lys	His	Phe	Met	Leu	Ser	Val	145	150	155
Lys	Met	Phe	Tyr	Gly	Asn	Ser	Asp	Asp	Ile	Gly	Val	Phe	Leu	Ser	Lys	165	170	175
Arg	Ile	Lys	Val	Ile	Ser	Lys	Pro	Ser	Lys	Lys	Lys	Gln	Ser	Leu	Lys	180	185	190
Asn	Ala	Asp	Leu	Cys	Ile	Ala	Ser	Gly	Thr	Lys	Val	Ala	Leu	Phe	Asn	195	200	205
Arg	Leu	Arg	Ser	Gln	Thr	Val	Ser	Thr	Arg	Tyr	Leu	His	Val	Glu	Gly	210	215	220
Gly	Asn	Phe	His	Ala	Ser	Ser	Gln	Gln	Trp	Gly	Ala	Phe	Phe	Ile	His	225	230	235
Leu	Leu	Asp	Asp	Asp	Glu	Ser	Glu	Gly	Glu	Glu	Phe	Thr	Val	Arg	Asp	245	250	255
Gly	Tyr	Ile	His	Tyr	Gly	Gln	Thr	Val	Lys	Leu	Val	Cys	Ser	Val	Thr	260	265	270
Gly	Met	Ala	Leu	Pro	Arg	Leu	Ile	Ile	Arg	Lys	Val	Asp	Lys	Gln	Thr	275	280	285
Ala	Leu	Leu	Asp	Ala	Asp	Asp	Pro	Val	Ser	Gln	Leu	His	Lys	Cys	Ala	290	295	300
Phe	Tyr	Leu	Lys	Asp	Thr	Glu	Arg	Met	Tyr	Leu	Cys	Leu	Ser	Gln	Glu	305	310	315
Arg	Ile	Ile	Gln	Phe	Gln	Ala	Thr	Pro	Cys	Pro	Lys	Glu	Pro	Asn	Lys	325	330	335
Glu	Met	Ile	Asn	Asp	Gly	Ala	Ser	Trp	Thr	Ile	Ile	Ser	Thr	Asp	Lys	340	345	350
Ala	Glu	Tyr	Thr	Phe	Tyr	Glu	Gly	Met	Gly	Pro	Val	Leu	Ala	Pro	Val	355	360	365
Thr	Pro	Val	Pro	Val	Val	Glu	Ser	Leu	Gln	Leu	Asn	Gly	Gly	Gly	Asp	370	375	380
Val	Ala	Met	Leu	Glu	Leu	Thr	Gly	Gln	Asn	Phe	Thr	Pro	Asn	Leu	Arg	385	390	395
																		400

831

Val Trp Phe Gly Asp Val Glu Ala Glu Thr Met Tyr Arg Cys Gly Glu
 405 410 415

Ser Met Leu Cys Val Val Pro Asp Ile Ser Ala Phe Arg Glu Gly Trp
 420 425 430

Arg Trp Val Arg Gln Pro Val Gln Val Pro Val Thr Leu Val Arg Asn
 435 440 445

Asp Gly Ile Ile Tyr Ser Thr Ser Leu Thr Phe Thr Tyr Thr Pro Glu
 450 455 460

Pro Gly Pro Arg Pro His Cys Ser Ala Ala Gly Ala Ile Leu Arg Ala
 465 470 475 480

Asn Ser Ser Gln Val Pro Pro Asn Glu Ser Asn Thr Asn Ser Glu Gly
 485 490 495

Ser Tyr Thr Asn Ala Ser Thr Asn Ser Thr Ser Val Thr Ser Ser Thr
 500 505 510

Ala Thr Val Val Ser
 515

<210> 786

<211> 211

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 786

Pro Cys Ile Leu Gly Val Glu Arg Arg Met Glu Thr Glu Ser Gly Asn
 1 5 10 15

Gln Glu Lys Val Met Glu Glu Glu Ser Thr Glu Lys Lys Lys Glu Val
 20 25 30

Glu Lys Lys Lys Arg Ser Arg Val Lys Gln Val Leu Ala Asp Ile Ala
 35 40 45

832

Lys Gln Val Asp Phe Trp Phe Gly Asp Ala Asn Leu His Lys Asp Arg
 50 55 60
 Phe Leu Arg Glu Gln Ile Glu Lys Ser Arg Asp Gly Tyr Val Asp Ile
 65 70 75 80
 Ser Leu Leu Val Ser Phe Asn Lys Met Lys Lys Leu Thr Thr Asp Gly
 85 90 95
 Lys Leu Ile Ala Arg Ala Leu Arg Ser Ser Ala Val Val Glu Leu Asp
 100 105 110
 Leu Glu Gly Thr Arg Ile Arg Arg Lys Xaa Pro Leu Gly Glu Arg Pro
 115 120 125
 Lys Asp Glu Asp Glu Arg Thr Val Tyr Val Glu Leu Leu Pro Lys Asn
 130 135 140
 Val Asn His Ser Trp Ile Glu Arg Val Phe Gly Lys Cys Gly Asn Val
 145 150 155 160
 Val Tyr Ile Ser Ile Pro His Tyr Lys Ser Thr Gly Asp Pro Lys Gly
 165 170 175
 Phe Ala Phe Val Glu Phe Glu Thr Lys Glu Gln Ala Ala Lys Ala Ile
 180 185 190
 Glu Val Ser Pro Asp Pro Xaa Lys Lys Lys Arg Lys Lys Arg Lys Gln
 195 200 205
 Val Leu Lys
 210

<210> 787

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

833

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 787

His	Ser	Arg	Gly	Val	Ala	Gly	Thr	Ile	Thr	Leu	Phe	Arg	Xaa	Ser	Tyr
1				5					10					15	

Ser	Ser	Ala	Val	Xaa	Xaa	Ser	Gln	Leu	Leu	His	Gln	Met	Arg	Phe	Phe
			20					25					30		

Cys	Ser	Leu	Met	Phe	Phe	Gly	Tyr	Gly	Tyr	Gly	Ile	Cys	Arg	Leu	Gly
		35					40					45			

Gly	Lys	Glu	Leu	Lys	Ile	Thr	Gly	Ala	Gly
	50					55			

<210> 788

<211> 471

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (448)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 788

Asn	Asp	Leu	Thr	Tyr	Asp	Met	Glu	Ile	Leu	Gln	Pro	Leu	Leu	Glu	Gln
1				5					10					15	

Gly	Ala	Ser	Leu	Arg	Gln	Thr	Met	Thr	Tyr	Glu	Gln	Pro	Lys	Glu	Ala
			20					25					30		

Ile	Val	Ile	Arg	Lys	Lys	Ile	Glu	Asn	Leu	Thr	Ser	Ala	Val	Asn	Ser
		35					40					45			

Leu	Asn	Phe	Ile	Ile	Lys	Glu	Leu	Thr	Lys	Arg	His	Asn	Leu	Leu	Arg
	50					55				60					

Asn	Glu	Val	Gln	Gly	Arg	Asp	Asp	Ala	Leu	Glu	Arg	Arg	Ile	Asn	Glu
65					70					75				80	

Tyr	Ala	Leu	Glu	Met	Glu	Asp	Gly	Leu	Asn	Lys	Thr	Met	Thr	Ile	Ile
				85					90					95	

Asn	Asn	Ala	Ile	Asp	Phe	Ile	Gln	Asp	Asn	Tyr	Ala	Leu	Lys	Glu	Thr
		100						105					110		

834

Leu Ser Thr Ile Lys Asp Asn Ser Glu Ile His His Lys Cys Thr Ser		
115	120	125
Asp Met Glu Thr Ile Leu Thr Phe Ile Pro Gln Phe His Arg Leu Asn		
130	135	140
Asp Ser Ile Gln Thr Leu Val Asn Asp Asn Gln Arg Tyr Asn Phe Val		
145	150	155 160
Leu Gln Val Ala Lys Thr Leu Ala Gly Ile Pro Arg Asp Glu Lys Leu		
165	170	175
Asn Gln Ser Asn Phe Gln Lys Met Tyr Gln Met Phe Asn Glu Thr Thr		
180	185	190
Ser Gln Val Arg Lys Tyr Gln Gln Asn Met Ser His Leu Glu Glu Lys		
195	200	205
Leu Leu Leu Thr Thr Lys Ile Ser Lys Asn Phe Glu Thr Arg Leu Gln		
210	215	220
Asp Ile Glu Ser Lys Val Thr Gln Thr Leu Ile Pro Tyr Tyr Ile Ser		
225	230	235 240
Val Lys Lys Gly Ser Val Val Thr Asn Glu Arg Asp Gln Ala Leu Gln		
245	250	255
Leu Gln Val Leu Asn Ser Arg Phe Lys Ala Leu Glu Ala Lys Ser Ile		
260	265	270
His Leu Ser Ile Asn Phe Phe Ser Leu Asn Lys Thr Leu His Glu Val		
275	280	285
Leu Thr Met Cys His Asn Ala Ser Thr Ser Val Ser Glu Leu Asn Ala		
290	295	300
Thr Ile Pro Lys Trp Ile Lys His Ser Leu Pro Asp Ile Gln Leu Leu		
305	310	315 320
Gln Lys Gly Leu Thr Glu Phe Val Glu Pro Ile Ile Gln Ile Lys Thr		
325	330	335
Gln Ala Ala Leu Ser Asn Leu Thr Cys Cys Ile Asp Arg Ser Leu Pro		
340	345	350
Gly Ser Leu Ala Asn Val Val Lys Ser Gln Lys Gln Val Lys Ser Leu		
355	360	365
Pro Lys Lys Ile Asn Ala Leu Lys Lys Pro Thr Val Asn Leu Thr Thr		
370	375	380

835

Val Leu Ile Gly Arg Thr Gln Arg Asn Thr Asp Asn Ile Ile Tyr Pro
385 390 395 400

Glu Glu Tyr Ser Ser Cys Ser Arg His Pro Cys Gln Asn Gly Gly Thr
405 410 415

Cys Ile Asn Gly Arg Thr Ser Phe Thr Cys Ala Cys Arg His Pro Phe
420 425 430

Thr Gly Asp Asn Cys Thr Ile Lys Leu Val Glu Glu Asn Ala Leu Xaa
435 440 445

Gln Ile Phe Pro Lys Asp Leu Thr Asp Met His Pro Trp Trp His Phe
450 455 460

Leu His Leu Ile Arg Met Glu
465 470

<210> 789

<211> 328

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

836

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (312)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (319)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 789

His	Gly	Val	His	Gly	Gly	Gly	Asp	Arg	Gly	Phe	Ala	Leu	Gly	Gly	His
1				5					10					15	

Glu	Arg	Glu	Pro	Ala	Ser	Gly	Arg	Pro	Gly	Ala	Lys	Xaa	Leu	His	Leu
			20					25					30		

Leu	Leu	Val	Ala	Glu	Pro	His	Gly	Gln	Glu	Asp	His	Ala	Gly	Gln	Gly
		35					40					45			

Glu	Asp	Pro	Arg	Glu	Val	Arg	Ala	Arg	Val	Gly	Ala	Ala	Ala	Ala	Arg
	50					55				60					

Ala	Xaa	Asp	Glu	Ile	Ile	Asp	Arg	Cys	Leu	Val	Gly	Pro	Arg	Ala	Pro
65					70				75						80

Ala	Pro	Arg	Asp	Pro	Gly	Asp	Ser	Glu	Glu	Leu	Thr	Arg	Phe	Pro	Gly
			85					90						95	

Leu	Arg	Gly	Pro	Thr	Gly	Gln	Lys	Val	Val	Arg	Phe	Gly	Asp	Glu	Asp
		100					105						110		

Leu	Thr	Trp	Gln	Asp	Glu	His	Ser	Ala	Pro	Phe	Ser	Xaa	Gly	Lys	Gln
	115						120					125			

Arg	Xaa	Arg	Leu	Glu	Phe	Xaa	Ile	Ser	Ala	Leu	Ser	Ile	Gln	Glu	Pro
	130					135					140				

Ser	Asn	Gly	Thr	Ala	Leu	Ser	Xaa	Pro	Arg	Pro	Leu	Ser	Lys	Ala	Ser
145				150					155					160	

Gln	Gly	Ser	Gln	Ala	Leu	Lys	Ser	Ser	Gln	Gly	Ser	Arg	Ser	Ser	Ser
			165						170					175	

Leu	Asp	Ala	Leu	Gly	Pro	Thr	Arg	Lys	Glu	Glu	Glu	Ala	Ser	Phe	Trp
		180						185						190	

837

Lys Ile Asn Ala Glu Arg Ser Arg Gly Glu Gly Pro Glu Ala Glu Phe
 195 200 205
 Gln Ser Leu Thr Pro Ser Gln Ile Lys Ser Met Glu Lys Gly Glu Lys
 210 215 220
 Val Leu Pro Pro Cys Tyr Arg Gln Glu Pro Ala Pro Lys Asp Arg Glu
 225 230 235 240
 Ala Lys Val Glu Arg Pro Ser Thr Leu Arg Gln Glu Gln Arg Pro Leu
 245 250 255
 Pro Asn Val Ser Thr Glu Arg Glu Arg Pro Gln Pro Val Gln Ala Phe
 260 265 270
 Ser Ser Ala Leu His Glu Ala Ala Pro Ser Gln Leu Glu Gly Lys Leu
 275 280 285
 Pro Ser Pro Asp Val Arg Gln Asp Asp Gly Glu Asp Thr Leu Phe Ser
 290 295 300
 Glu Pro Lys Phe Ala Gln Val Xaa Ser Ser Asn Val Val Leu Xaa Thr
 305 310 315 320
 Gly Phe Asp Phe Leu Asp Asn Trp
 325

<210> 790

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 790

Ala Ala Glu Ala Arg Ala Arg Pro Gly Val Thr Leu Arg Pro Phe Ala
 1 5 10 15

Pro Leu Ser Gly Ala Ala Glu Ala Asp Glu Gly Gly Gly Asp Trp Ser
 20 25 30

Xaa Ile Asp Cys Glu Met Glu Glu Val Asp Leu Gln Asp Leu Pro Ser
 35 40 45

Ala Thr Ile Ala Cys His Leu Asp Pro Arg Val Phe Val Asp Gly Leu

838

50 55 60
 Cys Arg Ala Lys Phe Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp Ile
 65 70 75 80
 Thr Phe Gln Tyr Phe Lys Ser Phe Lys Arg Val Arg Ile Asn Phe Ser
 85 90 95
 Asn Pro Phe Ser Ala Ala Asp Ala Arg Leu Gln Leu His Lys Thr Glu
 100 105 110
 Phe Leu Gly Lys Glu Met Lys Leu Tyr Phe Ala Gln Thr Leu His Ile
 115 120 125
 Gly Ser Ser His Leu Ala Pro Gln Ile Gln Thr Ser Ser Phe
 130 135 140

<210> 791

<211> 322

<212> PRT

<213> Homo sapiens

<400> 791

Ala Gly Gly Pro Arg Ala Ala His Pro Val Cys Leu Cys Leu Leu Gln
 1 5 10 15
 Ser Ser Val Leu Ala Leu Val Arg Leu Arg Pro Gly Cys Thr Ala Gly
 20 25 30
 Thr Trp Ala Met Ser Pro His Pro Thr Ala Leu Leu Gly Leu Val Leu
 35 40 45
 Cys Leu Ala Gln Thr Ile His Thr Gln Glu Glu Asp Leu Pro Arg Pro
 50 55 60
 Ser Ile Ser Ala Glu Pro Gly Thr Val Ile Pro Leu Gly Ser His Val
 65 70 75 80
 Thr Phe Val Cys Arg Gly Pro Val Gly Val Gln Thr Phe Arg Leu Glu
 85 90 95
 Arg Glu Ser Arg Ser Thr Tyr Asn Asp Thr Glu Asp Val Ser Gln Ala
 100 105 110
 Ser Pro Ser Glu Ser Glu Ala Arg Phe Arg Ile Asp Ser Val Ser Glu
 115 120 125
 Gly Asn Ala Gly Pro Tyr Arg Cys Ile Tyr Tyr Lys Pro Pro Lys Trp
 130 135 140

839

Ser Glu Gln Ser Asp Tyr Leu Glu Leu Leu Val Lys Glu Thr Ser Gly
 145 150 155 160
 Gly Pro Asp Ser Pro Asp Thr Glu Pro Gly Ser Ser Ala Gly Pro Thr
 165 170 175
 Gln Arg Pro Ser Asp Asn Ser His Asn Glu His Ala Pro Ala Ser Gln
 180 185 190
 Gly Leu Lys Ala Glu His Leu Tyr Ile Leu Ile Gly Val Ser Val Val
 195 200 205
 Phe Leu Phe Cys Leu Leu Leu Leu Val Leu Phe Cys Leu His Arg Gln
 210 215 220
 Asn Gln Ile Lys Gln Gly Pro Pro Arg Ser Lys Asp Glu Glu Gln Lys
 225 230 235 240
 Pro Gln Gln Arg Pro Asp Leu Ala Val Asp Val Leu Glu Arg Thr Ala
 245 250 255
 Asp Lys Ala Thr Val Asn Gly Leu Pro Glu Lys Asp Arg Glu Thr Asp
 260 265 270
 Thr Ser Ala Leu Ala Ala Gly Ser Ser Gln Glu Val Thr Tyr Ala Gln
 275 280 285
 Leu Asp His Trp Ala Leu Thr Gln Arg Thr Ala Arg Ala Val Ser Pro
 290 295 300
 Gln Ser Thr Lys Pro Met Ala Glu Ser Ile Thr Tyr Ala Ala Val Ala
 305 310 315 320
 Arg His

<210> 792
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 792
 Pro Leu Leu Cys Leu Pro Ser Ile Met Lys Gly Leu Ala Ala Ala Leu
 1 5 10 15
 Leu Val Leu Val Cys Thr Met Ala Leu Cys Ser Cys Ala Gln Val Gly
 20 25 30

840

Thr Asn Lys Glu Leu Cys Cys Leu Val Tyr Thr Ser Trp Gln Ile Pro
 35 40 45
 Gln Lys Phe Ile Val Asp Tyr Ser Glu Thr Ser Pro Gln Cys Pro Lys
 50 55 60
 Pro Gly Val Ile Leu Leu Thr Lys Arg Gly Arg Gln Ile Cys Ala Asp
 65 70 75 80
 Pro Asn Lys Lys Trp Val Gln Lys Tyr Ile Ser Asp Leu Lys Leu Asn
 85 90 95
 Ala

<210> 793
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 793
 Pro Pro Gly Leu Pro Gly Phe Gly Thr Ser His Thr Phe Ala Pro Ala
 1 5 10 15
 Ala Met Thr Leu Ser Pro Leu Leu Leu Phe Leu Pro Pro Leu Leu Leu
 20 25 30
 Leu Leu Asp Val Pro Thr Ala Ala Val Gln Ala Ser Pro Leu Gln Ala
 35 40 45
 Leu Asp Phe Phe Gly Asn Gly Pro Pro Val Asn Tyr Lys Thr Gly Asn
 50 55 60
 Leu Tyr Leu Arg Gly Pro Leu Lys Lys Ser Asn Ala Pro Leu Val Asn
 65 70 75 80
 Val Thr Leu Tyr Tyr Glu Ala Leu Cys Gly Gly Cys Arg Ala Phe Leu
 85 90 95
 Ile Arg Glu Leu Phe Pro Thr Trp Leu Leu Val Met Glu Ile Leu Asn
 100 105 110
 Val Thr Leu Val Pro Tyr Gly Asn Ala Gln Glu Gln Asn Val Ser Gly
 115 120 125
 Arg Trp Glu Phe Lys Cys Gln His Gly Glu Glu Glu Cys Lys Phe Asn
 130 135 140
 Lys Val Glu Ala Cys Val Leu Asp Glu Leu Asp Met Glu Leu Ala Phe

841

145 150 155 160
 Leu Thr Ile Val Cys Met Glu Glu Phe Glu Asp Met Glu Arg Ser Leu
 165 170 175
 Pro Leu Cys Leu Gln Leu Tyr Ala Pro Gly Leu Ser Pro Asp Thr Ile
 180 185 190
 Met Glu Cys Ala Met Gly Asp Arg Gly Met Gln Leu Met His Ala Asn
 195 200 205
 Ala Gln Arg Thr Asp Ala Leu Gln Pro Pro His Glu Tyr Val Pro Trp
 210 215 220
 Val Thr Val Asn Gly Lys Pro Leu Glu Asp Gln Thr Gln Leu Leu Thr
 225 230 235 240
 Leu Val Cys Gln Leu Tyr Gln Gly Lys Lys Pro Asp Val Cys Pro Ser
 245 250 255
 Ser Thr Ser Ser Leu Arg Ser Val Cys Phe Lys
 260 265

<210> 794

<211> 297

<212> PRT

<213> Homo sapiens

<400> 794

Gln Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Ala Ser
 1 5 10 15
 Thr Arg Pro Gln Phe Leu Ile Thr Val Pro Val Leu Thr Val Ile Asn
 20 25 30
 Tyr Arg Pro His Asn Met Arg Pro Glu Asp Arg Met Phe His Ile Arg
 35 40 45
 Ala Val Ile Leu Arg Ala Leu Ser Leu Ala Phe Leu Leu Ser Leu Arg
 50 55 60
 Gly Ala Gly Ala Ile Lys Ala Asp His Val Ser Thr Tyr Ala Ala Phe
 65 70 75 80
 Val Gln Thr His Arg Pro Thr Gly Glu Phe Met Phe Glu Phe Asp Glu
 85 90 95
 Asp Glu Met Phe Tyr Val Asp Leu Asp Lys Lys Glu Thr Val Trp His
 100 105 110

842

Leu Glu Glu Phe Gly Gln Ala Phe Ser Phe Glu Ala Gln Gly Gly Leu
 115 120 125

Ala Asn Ile Ala Ile Leu Asn Asn Asn Leu Asn Thr Leu Ile Gln Arg
 130 135 140

Ser Asn His Thr Gln Ala Thr Asn Asp Pro Pro Glu Val Thr Val Phe
 145 150 155 160

Pro Lys Glu Pro Val Glu Leu Gly Gln Pro Asn Thr Leu Ile Cys His
 165 170 175

Ile Asp Lys Phe Phe Pro Pro Val Leu Asn Val Thr Trp Leu Cys Asn
 180 185 190

Gly Glu Leu Val Thr Glu Gly Val Ala Glu Ser Leu Phe Leu Pro Arg
 195 200 205

Thr Asp Tyr Ser Phe His Lys Phe His Tyr Leu Thr Phe Val Pro Ser
 210 215 220

Ala Glu Asp Phe Tyr Asp Cys Arg Val Glu His Trp Gly Leu Asp Gln
 225 230 235 240

Pro Leu Leu Lys His Trp Glu Ala Gln Glu Pro Ile Gln Met Pro Glu
 245 250 255

Thr Thr Glu Thr Val Leu Cys Ala Leu Gly Leu Val Leu Gly Leu Val
 260 265 270

Gly Ile Ile Val Gly Thr Val Leu Ile Ile Lys Ser Leu Arg Ser Gly
 275 280 285

His Asp Pro Arg Ala Gln Gly Thr Leu
 290 295

<210> 795

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

843

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 795

Ile Gly Trp Glu Val Ser Phe Trp Ile Cys Phe Glu Thr Val Pro Glu
 1 5 10 15

Arg Arg Leu Pro Phe Pro Arg His Phe His Arg Gln Gln Phe Gly Asp
 20 25 30

Ser Phe Ala Ala Lys Tyr Xaa Leu Val Asn Tyr Phe Pro Ala Gln Arg
 35 40 45

Leu Arg Ala Lys Gln Gln Met Arg Val Ser Val Pro Xaa Lys Ser Glu
 50 55 60

Asp Val Ala Ile Glu Arg Thr Val Phe Ser Tyr Val Ser Arg Leu Ser
 65 70 75 80

Tyr Ala Thr Val Ser Lys Pro Ala Pro Thr Val Arg Lys Cys Val Arg
 85 90 95

His Arg Thr Gln Leu Ala Met Cys Phe Leu Ser Gln Gly Asp Thr Cys
 100 105 110

Ile

<210> 796

<211> 415

<212> PRT

<213> Homo sapiens

<400> 796

Lys Met Ser Glu Tyr Ile Arg Val Thr Glu Asp Glu Asn Asp Glu Pro
 1 5 10 15

Ile Glu Ile Pro Ser Glu Asp Asp Gly Thr Val Leu Leu Ser Thr Val
 20 25 30

Thr Ala Gln Phe Pro Gly Ala Cys Gly Leu Arg Tyr Arg Asn Pro Val
 35 40 45

Ser Gln Cys Met Arg Gly Val Arg Leu Val Glu Gly Ile Leu His Ala
 50 55 60

Pro Asp Ala Gly Trp Gly Asn Leu Val Tyr Val Val Asn Tyr Pro Lys
 65 70 75 80

Asp	Asn	Lys	Arg	Lys	Met	Asp	Glu	Thr	Asp	Ala	Ser	Ser	Ala	Val	Lys
				85				90				95			
Val	Lys	Arg	Ala	Val	Gln	Lys	Thr	Ser	Asp	Leu	Ile	Val	Leu	Gly	Leu
				100				105				110			
Pro	Trp	Lys	Thr	Thr	Glu	Gln	Asp	Leu	Lys	Glu	Tyr	Phe	Ser	Thr	Phe
				115				120				125			
Gly	Glu	Val	Leu	Met	Val	Gln	Val	Lys	Lys	Asp	Leu	Lys	Thr	Gly	His
				130				135				140			
Ser	Lys	Gly	Phe	Gly	Phe	Val	Arg	Phe	Thr	Glu	Tyr	Glu	Thr	Gln	Val
145				150				155				160			
Lys	Val	Met	Ser	Gln	Arg	His	Met	Ile	Asp	Gly	Arg	Trp	Cys	Asp	Cys
				165				170				175			
Lys	Leu	Pro	Asn	Ser	Lys	Gln	Ser	Gln	Asp	Glu	Pro	Leu	Arg	Ser	Arg
				180				185				190			
Lys	Val	Phe	Val	Gly	Arg	Cys	Thr	Glu	Asp	Met	Thr	Glu	Asp	Glu	Leu
				195				200				205			
Arg	Glu	Phe	Phe	Ser	Gln	Tyr	Gly	Asp	Val	Met	Asp	Val	Phe	Ile	Pro
210				215				220							
Lys	Pro	Phe	Arg	Ala	Phe	Ala	Phe	Val	Thr	Phe	Ala	Asp	Asp	Gln	Ile
225				230				235				240			
Ala	Gln	Ser	Leu	Cys	Gly	Glu	Asp	Leu	Ile	Ile	Lys	Gly	Ile	Ser	Val
				245				250				255			
His	Ile	Ser	Asn	Ala	Glu	Pro	Lys	His	Asn	Ser	Asn	Arg	Gln	Leu	Glu
				260				265				270			
Arg	Ser	Gly	Arg	Phe	Gly	Gly	Asn	Pro	Gly	Gly	Phe	Gly	Asn	Gln	Gly
				275				280				285			
Gly	Phe	Gly	Asn	Ser	Arg	Gly	Gly	Gly	Ala	Gly	Leu	Gly	Asn	Asn	Gln
290				295				300							
Gly	Ser	Asn	Met	Gly	Gly	Gly	Met	Asn	Phe	Gly	Ala	Phe	Ser	Ile	Asn
305				310				315				320			
Pro	Ala	Met	Met	Ala	Ala	Ala	Gln	Ala	Ala	Leu	Gln	Ser	Ser	Trp	Gly
				325				330				335			
Met	Met	Gly	Met	Leu	Ala	Ser	Gln	Gln	Asn	Gln	Ser	Gly	Pro	Ser	Gly
				340				345				350			

845

Asn Asn Gln Asn Gln Gly Asn Met Gln Arg Glu Pro Asn Gln Ala Phe
355 360 365

Gly Ser Gly Asn Asn Ser Tyr Ser Gly Ser Asn Ser Gly Ala Ala Ile
370 375 380

Gly Trp Gly Ser Ala Ser Asn Ala Gly Ser Gly Ser Gly Phe Asn Gly
385 390 395 400

Gly Phe Gly Ser Ser Met Asp Ser Lys Ser Ser Gly Trp Gly Met
405 410 415

<210> 797

<211> 609

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (446)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (506)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (577)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (583)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (584)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

846

<222> (599)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (608)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 797

Leu Thr Ala Leu Arg Trp Leu Leu Arg Gly Gln Glu Lys Arg Thr Leu
 1 5 10 15

Gly Ser Ser Gln Ser Asp Phe Leu Thr Pro Pro Val Gly Gly Ala Pro
 20 25 30

Trp Ala Val Ala Thr Thr Val Val Met Tyr Pro Pro Pro Pro Pro Pro
 35 40 45

Pro His Arg Asp Phe Ile Ser Val Thr Leu Ser Phe Gly Glu Ser Tyr
 50 55 60

Asp Asn Ser Lys Ser Trp Arg Arg Arg Ser Cys Trp Arg Lys Trp Lys
 65 70 75 80

Gln Leu Ser Arg Leu Gln Arg Asn Met Ile Leu Phe Leu Leu Ala Phe
 85 90 95

Leu Leu Phe Cys Gly Leu Leu Phe Tyr Ile Asn Leu Ala Asp His Trp
 100 105 110

Lys Ala Leu Ala Phe Arg Leu Glu Glu Glu Gln Lys Met Arg Pro Glu
 115 120 125

Ile Ala Gly Leu Lys Pro Ala Asn Pro Pro Val Leu Pro Ala Pro Gln
 130 135 140

Lys Ala Asp Thr Asp Pro Glu Asn Leu Pro Glu Ile Ser Ser Gln Lys
 145 150 155 160

Thr Gln Arg His Ile Gln Arg Gly Pro Xaa His Leu Gln Ile Arg Pro
 165 170 175

Pro Ser Gln Asp Leu Lys Asp Gly Thr Gln Glu Glu Ala Thr Lys Arg
 180 185 190

Gln Glu Ala Pro Val Asp Pro Arg Pro Glu Gly Asp Pro Gln Arg Thr
 195 200 205

Val Ile Ser Trp Arg Gly Ala Val Ile Glu Pro Glu Gln Gly Thr Glu
 210 215 220

847

Leu Pro Ser Arg Arg Ala Glu Val Pro Thr Lys Pro Pro Leu Pro Pro
 225 230 235 240
 Ala Arg Thr Gln Gly Thr Pro Val His Leu Asn Tyr Arg Gln Lys Gly
 245 250 255
 Val Ile Asp Val Phe Leu His Ala Trp Lys Gly Tyr Arg Lys Phe Ala
 260 265 270
 Trp Gly His Asp Glu Leu Lys Pro Val Ser Arg Ser Phe Ser Glu Trp
 275 280 285
 Phe Gly Leu Gly Leu Thr Leu Ile Asp Ala Leu Asp Thr Met Trp Ile
 290 295 300
 Leu Gly Leu Arg Lys Glu Phe Glu Glu Ala Arg Lys Trp Val Ser Lys
 305 310 315 320
 Lys Leu His Phe Glu Lys Asp Val Asp Val Asn Leu Phe Glu Ser Thr
 325 330 335
 Ile Arg Ile Leu Gly Gly Leu Leu Ser Ala Tyr His Leu Ser Gly Asp
 340 345 350
 Ser Leu Phe Leu Arg Lys Ala Glu Asp Phe Gly Asn Arg Leu Met Pro
 355 360 365
 Ala Phe Arg Thr Pro Ser Lys Ile Pro Tyr Ser Asp Val Asn Ile Gly
 370 375 380
 Thr Gly Val Ala His Pro Pro Arg Trp Thr Ser Asp Ser Thr Val Ala
 385 390 395 400
 Glu Val Thr Ser Ile Gln Leu Glu Phe Arg Glu Leu Ser Arg Leu Thr
 405 410 415
 Gly Asp Lys Lys Phe Gln Glu Ala Val Glu Lys Val Thr Gln His Ile
 420 425 430
 His Gly Leu Ser Gly Lys Lys Asp Gly Leu Val Pro Cys Xaa Ile Asn
 435 440 445
 Thr His Ser Gly Leu Phe Thr His Leu Gly Val Phe Thr Leu Gly Ala
 450 455 460
 Arg Ala Asp Ser Tyr Tyr Glu Tyr Leu Leu Lys Gln Trp Ile Gln Gly
 465 470 475 480
 Gly Lys Gln Glu Thr Gln Leu Leu Glu Asp Tyr Val Glu Ala Ile Glu
 485 490 495

848

Gly Val Arg Thr His Leu Leu Arg His Xaa Glu Pro Ser Lys Leu Thr
 500 505 510

Phe Val Gly Glu Leu Ala His Gly Arg Phe Ser Ala Lys Met Asp His
 515 520 525

Leu Val Cys Phe Leu Pro Gly Thr Leu Ala Leu Gly Val Tyr His Gly
 530 535 540

Leu Pro Ala Ser His Met Glu Leu Ala Gln Glu Leu Met Glu Thr Cys
 545 550 555 560

Tyr Gln Met Asn Arg Gln Met Glu Thr Gly Leu Ser Pro Glu Ile Val
 565 570 575

Xaa Phe Asn Phe Thr Pro Xaa Xaa Pro Gly Gly Pro Gly Ser Gly Gly
 580 585 590

Asn Arg Leu Gly Lys Gly Xaa Pro Lys Arg Ala Pro Lys Gly Pro Xaa
 595 600 605

Glu

<210> 798

<211> 106

<212> PRT

<213> Homo sapiens

<400> 798

Leu Leu Pro His Pro Gly Arg Met Leu Thr Phe Met Glu Ala Asp Met
 1 5 10 15

Cys Thr Gln Asn Gln Arg Glu Pro Val Ile Leu Ser Trp Arg Ser Gln
 20 25 30

Lys Thr Ser Ala Tyr Ser Ser Phe Arg Trp Met Ala Gln Glu Ser Ser
 35 40 45

Glu Pro Met Gly Asp Leu Ile Tyr Tyr His Ile Arg Leu Leu Gly Met
 50 55 60

Asn Ile Cys Val Ile Phe Pro Asn Asp Leu Thr Leu Phe Tyr Leu Cys
 65 70 75 80

Ile Gln Phe Leu Cys His Asn Val Leu Phe Cys Phe Ser Phe Ser Ile
 85 90 95

Val Glu Glu Gly Arg Ser Ser Lys Leu Leu

849

100

105

<210> 799

<211> 114

<212> PRT

<213> Homo sapiens

<400> 799

Cys Asn Leu Ile Gln Ser Asp Tyr Ser Val Ala Leu Pro His Gly Lys
 1 5 10 15

Ser Tyr Phe Phe Arg Ser Lys Lys Leu Asn Ser Met Leu Val Thr Trp
 20 25 30

Phe Gln Leu Glu Phe Ser Phe Asn Val Asn Lys Ile Glu Thr Leu Val
 35 40 45

Phe Ser Gly Glu Trp Lys Glu Leu Pro Leu Leu Gln Val Met Lys Pro
 50 55 60

Asp Leu Ile Met Lys Leu Leu Asn His Ser Ser Cys Val Gln Asn Tyr
 65 70 75 80

Cys Phe Phe Cys Leu Phe Phe Leu Phe Val Thr Val Tyr Ile Lys Ile
 85 90 95

Leu Glu Asp Ala Leu Leu Cys Lys Lys Lys Lys Lys Lys Lys Arg
 100 105 110

Ala Ala

<210> 800

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 800

Asn Ile Ser Ile Arg Arg Glu Tyr Ile Lys Gln Asn Pro Met Ala Thr
 1 5 10 15

Glu Lys Leu Leu Ser Leu Leu Pro Glu Tyr Val Val Pro Tyr Met Ile

850

20	25	30
His Leu Leu Ala His Asp Pro Asp Phe Thr Arg Ser Gln Asp Val Asp		
35	40	45
Gln Leu Arg Asp Ile Lys Glu Cys Leu Trp Phe Met Leu Glu Val Leu		
50	55	60
Met Thr Lys Asn Glu Asn Asn Ser His Ala Phe Met Lys Lys Met Ala		
65	70	75
Glu Asn Ile Lys Leu Thr Arg Asp Ala Gln Ser Pro Asp Glu Ser Lys		
85	90	95
Thr Asn Glu Lys Leu Tyr Thr Val Cys Asp Val Ala Leu Cys Val Ile		
100	105	110
Asn Ser Lys Ser Ala Leu Cys Asn Ala Asp Ser Pro Lys Asp Pro Val		
115	120	125
Leu Pro Met Lys Phe Phe Thr Gln Pro Glu Lys Asp Phe Cys Asn Asp		
130	135	140
Lys Ser Tyr Ile Ser Glu Glu Thr Arg Val Leu Leu Leu Thr Gly Lys		
145	150	155
Pro Lys Pro Ala Gly Val Leu Gly Ala Val Asn Lys Pro Leu Ser Ala		
165	170	175
Thr Gly Arg Lys Pro Tyr Val Arg Ser Thr Gly Thr Glu Thr Gly Ser		
180	185	190
Asn Ile Asn Val Asn Ser Glu Leu Asn Pro Ser Thr Gly Asn Arg Ser		
195	200	205
Arg Glu Gln Ser Ser Glu Ala Ala Glu Thr Gly Val Ser Glu Asn Glu		
210	215	220
Glu Asn Pro Val Arg Ile Ile Ser Val Thr Pro Val Lys Asn Ile Asp		
225	230	235
Pro Val Lys Asn Lys Glu Ile Asn Ser Asp Gln Ala Thr Gln Gly Asn		
245	250	255
Ile Ser Ser Asp Arg Gly Lys Lys Arg Thr Val Thr Ala Ala Gly Ala		
260	265	270
Glu Asn Ile Gln Gln Lys Thr Asp Glu Lys Val Asp Glu Ser Gly Pro		
275	280	285
Pro Ala Pro Ser Lys Pro Arg Arg Gly Arg Arg Pro Lys Ser Glu Ser		

851

290 295 300
 Gln Gly Asn Ala Thr Lys Asn Asp Asp Leu Asn Lys Pro Ile Asn Lys
 305 310 315 320
 Gly Arg Lys Arg Ala Ala Val Gly Gln Glu Ser Pro Gly Gly Leu Glu
 325 330 335
 Ala Gly Asn Ala Lys Ala Pro Lys Leu Gln Asp Leu Ala Lys Lys Ala
 340 345 350
 Ala Pro Ala Glu Arg Xaa Ile Asp Leu Gln Arg
 355 360

<210> 801

<211> 581

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 801

Xaa Ser Ser Asn Thr Thr His Tyr Arg Gly Gly Ser Ala Ser Glu Ala
 1 5 10 15
 Ala Met Ser Tyr Pro Ala Asp Asp Tyr Glu Ser Glu Ala Ala Tyr Asp
 20 25 30
 Pro Tyr Ala Tyr Pro Ser Asp Tyr Asp Met His Thr Gly Asp Pro Lys
 35 40 45
 Gln Asp Leu Ala Tyr Glu Arg Gln Tyr Glu Gln Gln Thr Tyr Gln Val
 50 55 60
 Ile Pro Glu Val Ile Lys Asn Phe Ile Gln Tyr Phe His Lys Thr Val
 65 70 75 80
 Ser Asp Leu Ile Asp Gln Lys Val Tyr Glu Leu Gln Ala Ser Arg Val
 85 90 95
 Ser Ser Asp Val Ile Asp Gln Lys Val Tyr Glu Ile Gln Asp Ile Tyr
 100 105 110
 Glu Asn Ser Trp Thr Lys Leu Thr Glu Arg Phe Phe Lys Asn Thr Pro
 115 120 125

852

Trp Pro Glu Ala Glu Ala Ile Ala Pro Gln Val Gly Asn Asp Ala Val
 130 135 140

Phe Leu Ile Leu Tyr Lys Glu Leu Tyr Tyr Arg His Ile Tyr Ala Lys
 145 150 155 160

Val Ser Gly Gly Pro Ser Leu Glu Gln Arg Phe Glu Ser Tyr Tyr Asn
 165 170 175

Tyr Cys Asn Leu Phe Asn Tyr Ile Leu Asn Ala Asp Gly Pro Ala Pro
 180 185 190

Leu Glu Leu Pro Asn Gln Trp Leu Trp Asp Ile Ile Asp Glu Phe Ile
 195 200 205

Tyr Gln Phe Gln Ser Phe Ser Gln Tyr Arg Cys Lys Thr Ala Lys Lys
 210 215 220

Ser Glu Glu Glu Ile Asp Phe Leu Arg Ser Asn Pro Lys Ile Trp Asn
 225 230 235 240

Val His Ser Val Leu Asn Val Leu His Ser Leu Val Asp Lys Ser Asn
 245 250 255

Ile Asn Arg Gln Leu Glu Val Tyr Thr Ser Gly Gly Asp Pro Glu Ser
 260 265 270

Val Ala Gly Glu Tyr Gly Arg His Ser Leu Tyr Lys Met Leu Gly Tyr
 275 280 285

Phe Ser Leu Val Gly Leu Leu Arg Leu His Ser Leu Leu Gly Asp Tyr
 290 295 300

Tyr Gln Ala Ile Lys Val Leu Glu Asn Ile Glu Leu Asn Lys Lys Ser
 305 310 315 320

Met Tyr Ser Arg Val Pro Glu Cys Gln Val Thr Thr Tyr Tyr Tyr Val
 325 330 335

Gly Phe Ala Tyr Leu Met Met Arg Arg Tyr Gln Asp Ala Ile Arg Val
 340 345 350

Phe Ala Asn Ile Leu Leu Tyr Ile Gln Arg Thr Lys Ser Met Phe Gln
 355 360 365

Arg Thr Thr Tyr Lys Tyr Glu Met Ile Asn Lys Gln Asn Glu Gln Met
 370 375 380

His Ala Leu Leu Ala Ile Ala Leu Thr Met Tyr Pro Met Arg Ile Asp
 385 390 395 400

853

Glu Ser Ile His Leu Gln Leu Arg Glu Lys Tyr Gly Asp Lys Met Leu
 405 410 415

Arg Met Gln Lys Gly Asp Pro Gln Val Tyr Glu Glu Leu Phe Ser Tyr
 420 425 430

Ser Cys Pro Lys Phe Leu Ser Pro Val Val Pro Asn Tyr Asp Asn Val
 435 440 445

His Pro Asn Tyr His Lys Glu Pro Phe Leu Gln Gln Leu Lys Val Phe
 450 455 460

Ser Asp Glu Val Gln Gln Gln Ala Gln Leu Ser Thr Ile Arg Ser Phe
 465 470 475 480

Leu Lys Leu Tyr Thr Thr Met Pro Val Ala Lys Leu Ala Gly Phe Leu
 485 490 495

Asp Leu Thr Glu Gln Glu Phe Arg Ile Gln Leu Leu Val Phe Lys His
 500 505 510

Lys Met Lys Asn Leu Val Trp Thr Ser Gly Ile Ser Ala Leu Asp Gly
 515 520 525

Glu Phe Gln Ser Ala Ser Glu Val Asp Phe Tyr Ile Asp Lys Asp Met
 530 535 540

Ile His Ile Ala Asp Thr Lys Val Ala Arg Arg Tyr Gly Asp Phe Phe
 545 550 555 560

Ile Arg Gln Ile His Lys Phe Glu Glu Leu Asn Arg Thr Leu Lys Lys
 565 570 575

Met Gly Gln Arg Pro
 580

<210> 802

<211> 302

<212> PRT

<213> Homo sapiens

<400> 802

Ala Ser Glu Pro Trp Ala Ser Glu Leu Trp Leu Trp Val Asp Gly Gly
 1 5 10 15

Asp Thr Pro Arg Arg Arg Arg Glu Gly Arg Arg Gly Leu His Leu
 20 25 30

His Ala Ser Arg Leu Pro Leu Pro Ser Ala Pro Gly Pro Cys Ser Ser

854

35					40					45					
Leu	Gln	Asp	Gln	Ala	Met	Glu	Leu	Glu	Val	Arg	Arg	Val	Arg	Gln	Ala
50					55					60					
Phe	Leu	Ser	Gly	Arg	Ser	Arg	Pro	Leu	Arg	Phe	Arg	Leu	Gln	Gln	Leu
65					70					75					80
Glu	Ala	Leu	Arg	Arg	Met	Val	Gln	Glu	Arg	Glu	Lys	Asp	Ile	Leu	Thr
				85					90					95	
Ala	Ile	Ala	Ala	Asp	Leu	Cys	Lys	Ser	Glu	Phe	Asn	Val	Tyr	Ser	Gln
			100					105					110		
Glu	Val	Ile	Thr	Val	Leu	Gly	Glu	Ile	Asp	Phe	Met	Leu	Glu	Asn	Leu
	115					120						125			
Pro	Glu	Trp	Val	Thr	Ala	Lys	Pro	Val	Lys	Lys	Asn	Val	Leu	Thr	Met
	130					135					140				
Leu	Asp	Glu	Ala	Tyr	Ile	Gln	Pro	Gln	Pro	Leu	Gly	Val	Val	Leu	Ile
145					150					155					160
Ile	Gly	Ala	Trp	Asn	Tyr	Pro	Phe	Val	Leu	Thr	Ile	Gln	Pro	Leu	Ile
				165					170					175	
Gly	Ala	Ile	Ala	Ala	Gly	Asn	Ala	Val	Ile	Ile	Lys	Pro	Ser	Glu	Leu
			180					185					190		
Ser	Glu	Asn	Thr	Ala	Lys	Ile	Leu	Ala	Lys	Leu	Leu	Pro	Gln	Tyr	Leu
	195					200						205			
Asp	Gln	Asp	Leu	Tyr	Ile	Val	Ile	Asn	Gly	Gly	Val	Glu	Glu	Thr	Thr
	210					215					220				
Glu	Leu	Leu	Lys	Gln	Arg	Phe	Asp	His	Ile	Phe	Tyr	Thr	Gly	Asn	Thr
225					230					235					240
Ala	Val	Gly	Lys	Ile	Val	Met	Glu	Ala	Ala	Ala	Lys	His	Leu	Thr	Pro
				245					250					255	
Val	Thr	Leu	Glu	Leu	Gly	Gly	Lys	Ser	Pro	Cys	Tyr	Ile	Asp	Lys	Asp
		260					265					270			
Cys	Asp	Leu	Gly	His	Cys	Leu	Gln	Thr	His	Asn	Leu	Gly	Lys	Ile	His
	275					280						285			
Glu	Leu	Trp	Pro	Asn	Leu	His	Cys	Thr	Arg	Leu	Tyr	Ser	Leu		
	290					295						300			

855

<210> 803

<211> 44

<212> PRT

<213> Homo sapiens

<400> 803

Pro Leu Gly Arg Leu Arg Gln Glu Asn Arg Leu Asn Pro Gly Gly Gly
1 5 10 15

Gly Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Ala Trp Val Met
20 25 30

Glu Arg Asp Ser Ile Ser Lys Lys Lys Leu Cys Met
35 40

<210> 804

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

856

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 804

Ala Ile Leu Arg Leu Xaa Leu Xaa Gly Arg Xaa Leu Thr Xaa Xaa Leu

1

5

10

15

857

Met Lys Ile Leu Val Glu Xaa Arg Leu Gln Leu His His His Gly Arg
 20 25 30

Xaa Gly Lys Ser Cys Xaa Thr Ser Arg Arg Ser Cys Ala Thr Ser Pro
 35 40 45

Trp Asp Phe Xaa Xaa Glu Met Ala Thr Ala Ala Ser Ser Ser Ser Leu
 50 55 60

Glu Lys Ser Tyr Xaa Leu Pro Asp Gly Gln Val Ile Thr Ile Xaa Asn
 65 70 75 80

Glu Arg Phe Arg Cys Pro Xaa Gly Ala Val Pro Ala Xaa Pro Ser Trp
 85 90 95

Xaa

<210> 805

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 805

Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Asp Leu
 1 5 10 15

Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn
 20 25 30

Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu
 35 40 45

Pro Gly Ser Gly Val Gly Asn Leu Arg Ala Cys Xaa Leu Pro Trp Met
 50 55 60

Trp

65

<210> 806

<211> 58

<212> PRT

858

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 806

Glu	Gln	Gly	Gln	Ser	Asn	Asn	Asn	Ser	Asp	Thr	Cys	Ala	Glu	Phe	Arg
1				5					10					15	

Ile	Lys	Tyr	Val	Gly	Ala	Ile	Glu	Lys	Leu	Lys	Leu	Ser	Glu	Gly	Lys
			20					25					30		

Gly	Leu	Glu	Gly	Pro	Leu	Arg	Pro	Asp	Lys	Xaa	Xaa	Xaa	Thr	Leu	Ala
		35						40					45		

Gln	Gln	Gly	Trp	Xaa	Val	Cys	Leu	Leu	Phe
		50					55		

<210> 807

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

859

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 807
Ile Arg Xaa Ser Ser Xaa Trp Xaa Xaa Xaa Arg Gly Xaa Xaa Xaa Ile
1 5 10 15
Glu Asp Tyr Arg Gly Asn Val Gly Val Val Leu Phe Asn Phe Gly Lys
20 25 30
Glu Lys Phe Glu Val Lys Lys Gly Asp Arg Ile Ala Gln Leu His Leu
35 40 45
Xaa Thr Asp Phe Leu Ser Arg Asn Arg Arg Ser Ser Ser Leu Gly
50 55 60

860

<210> 808
 <211> 161
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (142)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (147)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (152)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 808
 Ala Ser Gln Leu Pro Asp Tyr Ser Ile Ser Pro Pro Ser Leu Pro Pro
 1 5 10 15
 Arg Ile Ser Phe His Pro Ser Pro Thr Leu Ala Arg Val Ala Met Ala
 20 25 30
 Glu Pro Ser Ala Ala Thr Gln Ser His Ser Ile Ser Ser Ser Ser Phe
 35 40 45
 Gly Ala Glu Pro Ser Ala Pro Gly Gly Gly Gly Ser Pro Gly Ala Cys
 50 55 60
 Pro Ala Leu Gly Thr Lys Ser Cys Ser Ser Ser Cys Ala Val His Asp
 65 70 75 80
 Leu Ile Phe Trp Arg Asp Val Lys Lys Thr Gly Phe Val Phe Gly Thr
 85 90 95
 Thr Leu Ile Met Leu Leu Ser Leu Ala Ala Phe Ser Val Ile Ser Val
 100 105 110
 Val Ser Tyr Leu Ile Leu Ala Leu Leu Ser Val Thr Ile Ser Phe Arg
 115 120 125
 Ile Tyr Lys Ser Val Ile Gln Ala Val Gln Lys Ser Glu Xaa Gly His
 130 135 140
 Pro Phe Xaa Ala Tyr Leu Asp Xaa Thr Leu Leu Cys Pro Gln Asn Phe
 145 150 155 160

861

Pro

<210> 809

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 809

Glu	Thr	Pro	Ala	Gly	Cys	Xaa	Ile	Asn	Ser	Ser	Ser	Ala	Ser	Ser	Pro
1				5				10					15		

Ala	Ser	His	Leu	Leu	Xaa	Ala	Pro	Arg	Gln	Ser	Ala	Gln	Ser	His	Val
			20					25					30		

His	Pro	Arg	Ser	Ala	Leu	Ser	Pro	Ala	His	His	Gln	Ser	Val	His	Ser
		35					40					45			

Pro	Ala	His	Leu	Ser	Ser	Ala	Ser	Arg	Asn	Val	Leu	Leu
	50						55				60	

<210> 810

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

862

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 810

Thr Glu Val Ala Arg Val Arg Leu Leu Arg Pro Ser Xaa Ala Ala Ala
1 5 10 15

Met Arg Tyr Val Ala Ser Tyr Leu Leu Ala Ala Leu Gly Gly Asn Ser
20 25 30

Ser Pro Ser Ala Lys Asp Ile Lys Lys Ile Leu Xaa Ser Val Gly Ile
35 40 45

Glu Ala Asp Asp Asp Arg Leu Asn Lys Val Ile Ser Glu Leu Asn Gly
50 55 60

Lys Asn Ile Glu Asp Val Ile Ala Gln Gly Ile Xaa Lys Leu Ala Ser
65 70 75 80

Val Pro Ala Gly Trp Gly Leu
85

<210> 811

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

864

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 811

Ala Pro Ser Cys Ser Trp Leu Ser Ser Gly Xaa Arg Ser Xaa Pro Asp
 1 5 10 15

Phe Pro Thr Pro Gly Val Val Phe Arg Asp Ile Ser Pro Val Leu Lys
 20 25 30

Asp Pro Xaa Xaa Phe Arg Ala Xaa Ile Gly Leu Leu Ala Arg Xaa Leu
 35 40 45

Lys Ala Thr His Gly Gly Arg Ile Asp Tyr Ile Ala Gly Leu Asp Xaa
 50 55 60

Arg Arg Val Pro Leu Leu Ala Leu Pro Gly Pro Gly Ala Leu Asp Trp
 65 70 75 80

Ala Ala Trp Leu Ile Arg Xaa Arg Xaa Glu Xaa Xaa Xaa Xaa Pro Ile
 85 90 95

Leu Trp Xaa Xaa
 100

<210> 812

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812

Thr Ser Gln Val Arg Gln Asn Tyr His Gln Asp Ser Glu Ala Ala Ile
 1 5 10 15

Asn Arg Gln Ile Asn Leu Glu Leu Tyr Ala Ser Tyr Val Tyr Leu Ser
 20 25 30

Met Ser Tyr Tyr Phe Asp Arg Asp Asp Val Ala Leu Lys Asn Phe Ala
 35 40 45

Lys Tyr Phe Leu His Gln Ser His Glu Glu Arg Glu His Ala Glu Lys
 50 55 60

Leu Met Lys Leu Gln Asn His Glu Val Ala Glu Ser Ser Xaa Gly Tyr

865

65

70

75

80

Gln Glu Thr Arg Leu
85

<210> 813

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

866

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 813

Lys	Leu	Val	Arg	Xaa	Pro	Val	Gln	Val	Xaa	Gly	Ile	Glu	Gly	Xaa	Tyr
1				5					10					15	

Xaa	Thr	Xaa	Leu	Tyr	Ser	Ala	Ala	Ser	Lys	Gln	Asn	Lys	Leu	Glu	Gln
			20					25					30		

Val	Glu	Lys	Glu	Leu	Leu	Arg	Val	Ala	Gln	Xaa	Leu	Lys	Glu	Pro	Lys
		35					40					45			

Val	Ala	Ala	Ser	Val	Leu	Asn	Pro	Tyr	Val	Lys	Arg	Ser	Ile	Lys	Val
	50					55					60				

Lys	Ser	Leu	Xaa	Asp	Ile	Thr	Ala	Xaa	Glu	Arg	Xaa	Ser	Pro	Leu	His
65					70					75					80

Tyr	Gln	Pro	Xaa	Xaa	Phe	Ala	Cys
					85		

<210> 814

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

867

<400> 814

Ala Gly Ala Val Ile Ile Gly Phe Arg Ser Lys Ile Lys Asn Ala Leu
 1 5 10 15

Ala His Phe Leu Pro Gln Gly Thr Pro Thr Pro Leu Ile Pro Ile Leu
 20 25 30

Val Ile Ile Glu Thr Ile Ser Leu Leu Ile Gln Pro Ile Ala Leu Ala
 35 40 45

Val Arg Leu Thr Ala Asn Ile Thr Ala Gly His Leu Leu Met His Leu
 50 55 60

Ile Gly Ser Ala Thr Leu Ala Ile Ser Thr Ile Asn Leu Pro Ser Thr
 65 70 75 80

Leu Ile Ile Phe Thr Ile Leu Ile Leu Leu Thr Ile Leu Glu Ile Ala
 85 90 95

Val Ala Leu Ile Gln Ala Tyr Val Phe Thr Leu Leu Val Lys Pro Leu
 100 105 110

Pro Ala Arg Gln His Ile Lys Lys Lys Lys Lys Xaa Lys Gly Gly
 115 120 125

Ala Gly Xaa Gln Ser
 130

<210> 815

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

868

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 815
 Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Val Ala Lys Met Val
 1 5 10 15
 Lys Pro Lys Tyr Lys Gly Arg Xaa Thr Ile Asn Pro Ser Lys Ala Ser
 20 25 30
 Thr Asn Pro Xaa Arg Val Gln Gly Ala Xaa Gly Gln Asn Met Arg Asp
 35 40 45
 Arg Ala Thr Ile Arg Arg Leu Xaa Met Tyr Arg Gln Lys Glu Arg Arg
 50 55 60
 Xaa Ser Arg Gly Lys Xaa Ile Lys Pro Leu Gln Tyr Gln Ser Thr Val
 65 70 75 80
 Ala Ser Gly Thr Val Ala Arg Val Glu Pro Asn Ile Lys Trp Phe Gly
 85 90 95
 Asn Thr Arg Val Ile Lys Gln Ser Ser Leu Gln Lys Phe Gln
 100 105 110

<210> 816
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 816
 Lys Asn Ala Leu Glu Lys Tyr Gly Pro Leu Lys Pro Leu Pro Gln Thr

869

```

      1             5             10             15
Pro His Leu Glu Glu Asp Leu Lys Glu Val Leu Arg Ser Glu Ala Gly
      20             25             30
Ile Glu Leu Ile Ile Glu Asp Asp Ile Arg Pro Glu Lys Gln Lys Arg
      35             40             45
Lys Pro Gly Leu Arg Arg Ser Pro Ile Lys Lys Val Arg Lys Ser Leu
      50             55             60
Ala Leu Asp Ile Val Asp Glu Asp Val Lys Leu Met Met Ser Thr Leu
      65             70             75             80
Pro Lys Ser Leu Ser Leu Pro Thr Thr Ala Pro Ser Asn Ser Ser Ser
      85             90             95
Leu Thr Leu Ser Gly Ile Lys Glu Asp Asn Ser Phe Ser Gln Ala His
      100            105            110
Val Arg Pro Gly Leu Ile Ser Asp Pro Ala
      115            120

```

<210> 817
 <211> 54
 <212> PRT
 <213> Homo sapiens

```

<400> 817
Pro Glu Pro Pro Glu Ser Trp Ser Gly Val Arg Asp Gly Thr Thr His
      1             5             10             15
Pro Ala Met Cys Leu Gln Asp Leu Thr Ala Val Glu Ser Glu Phe Leu
      20             25             30
Ser Gln Phe Asn Met Thr Phe Pro Ser Ser Pro Pro Pro Ser Pro Cys
      35             40             45
Leu Leu Ser Ser Leu Val
      50

```

<210> 818
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>

870

<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 818
Ala Met Ile Ser Ile Gly Phe Leu Gly Xaa Ile Val Arg Ala His His
1 5 10 15
Ile Phe Thr Val Gly Ile Asp Xaa Asp Thr Xaa Ala Tyr Phe Thr Cys
20 25 30
Xaa Thr Ile Ile Xaa Xaa Ile Pro Lys Arg Gly Gln Xaa Asn
35 40 45

<210> 819
<211> 118
<212> PRT
<213> Homo sapiens

871

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 819
 Lys Leu Pro Leu Lys Ala Lys Met Gly Lys Glu Lys Thr His Ile Asn
 1 5 10 15
 Ile Val Val Ile Gly His Val Asp Ser Gly Lys Ser Thr Thr Thr Gly
 20 25 30
 His Leu Thr Tyr Xaa Xaa Gly Gly Ile Asp Lys Arg Xaa Ile Glu Lys
 35 40 45
 Phe Glu Lys Glu Ala Ala Glu Met Gly Lys Gly Ser Phe Lys Tyr Ala
 50 55 60
 Trp Val Leu Asp Xaa Leu Lys Ala Glu Arg Xaa Arg Gly Ile Thr Ile
 65 70 75 80
 Asp Ile Ser Leu Trp Lys Phe Glu Thr Ser Lys Tyr Tyr Val Thr Ile
 85 90 95
 Ile Asp Ala Pro Gly His Arg Asp Phe Ile Lys Xaa Met Ile Thr Gly
 100 105 110

872

Thr Ser Gln Ala Asp Cys
115

<210> 820

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 820

Ile Leu Gly Phe Phe Glu Ile Ile Thr Val Cys Phe Pro Phe Val Ala
1 5 10 15

Gly Asn Phe Trp Gly Arg Thr Leu Leu Leu Ser Ser Val Xaa Gln Thr
20 25 30

Gln Pro Val Thr Met Val Leu Asp His Leu Cys Arg Asp Ser Thr Ser
35 40 45

Phe Pro Ile Met Ile Cys Pro His Trp Arg Tyr Phe Thr Ser Val Ile
50 55 60

Val Leu Ser Ser Leu Gly Ile Glu Ile Lys Ala Val Glu Tyr Met Asn
65 70 75 80

<210> 821

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

873

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 821

Thr	Ile	Gln	Lys	Gly	Thr	Lys	Ala	Trp	Ser	Ile	His	Arg	Gly	Gly	Gly
1				5					10					15	

Arg	Ser	Xaa	Thr	Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu	Phe	Gly	Thr	Ser
			20					25					30		

Ala	Gly	Pro	Glu	Met	Gln	Thr	Gly	Arg	Asn	Asn	Phe	Val	Xaa	Arg	Arg
		35					40					45			

Asn	Pro	Ala	Asp	Pro	Gln	Arg	Xaa	Pro	Ser	Asn	Pro	Ser	His	Arg	Xaa
	50					55					60				

Gln	Cys	Ala	Ala	Gly	Xaa	Glu	Gln	Ser	Glu	His	Asn	Val	Cys	Gln	Asp
65						70				75					80

874

Xaa Xaa Glu Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val
85 90 95

Cys Xaa Xaa Leu
100

<210> 822
<211> 163
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)

876

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 822

Xaa	Gln	Xaa	Cys	Xaa	Asp	Gly	Thr	Asn	Pro	Gly	Xaa	Leu	Phe	Gln	Pro
1				5					10					15	
Pro	Thr	Asp	Pro	Pro	Ile	Ser	Ser	Pro	Leu	Ala	Thr	Ser	Gly	Thr	Ile
			20					25					30		
Phe	Ser	Xaa	Ile	Ser	Xaa	Phe	Trp	Asp	Leu	Xaa	Pro	Pro	Phe	Leu	Trp
		35					40						45		
Leu	Ala	Pro	Ser	Cys	Gln	Pro	Thr	Met	Ser	Ser	Gln	Ile	Arg	Gln	Asn
	50					55					60				
Tyr	Ser	Thr	Asp	Xaa	Glu	Ala	Thr	Val	Asn	Ser	Leu	Val	Xaa	Leu	Tyr
65					70					75					80
Leu	His	Ala	Ser	Tyr	Thr	Tyr	Leu	Ser	Leu	Gly	Phe	Tyr	Phe	Xaa	Xaa
				85					90					95	
Asp	Asp	Leu	Ala	Leu	Glu	Ser	Val	Ser	Xaa	Phe	Phe	His	Glu	Thr	Gly
			100					105					110		
Arg	Gly	Xaa	Arg	Xaa	Gly	Tyr	Glu	Arg	Leu	Leu	Asn	Met	Gln	Asn	Gln
		115				120						125			
Arg	Gly	Arg	Pro	Arg	Ser	Leu	Pro	Gly	Ser	Gln	Gln	Ala	Xaa	Leu	Xaa
	130					135					140				
Ile	Ile	Gly	Val	Lys	Thr	Pro	Lys	Xaa	Xaa	Xaa	Thr	Cys	His	Cys	Pro
145					150					155					160
Glu	Asn	Lys													

<210> 823

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

877

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 823

Xaa	Gly	Thr	Ser	Xaa	Ser	Lys	Ala	Ser	Thr	Pro	Asn	Gly	Tyr	Asp	Asn
1				5					10					15	

Gly	Xaa	Ile	Trp	Xaa	Thr	Trp	Lys	Thr	Arg	Trp	Tyr	Xaa	Met	Lys	Lys
		20					25					30			

Thr	Thr	Xaa	Xaa	Ile	Ile	Pro	Phe	Asn	Arg	Leu	Thr	Ile	Xaa	Glu	Gly
		35				40						45			

Gln	Gln	His	His	Leu	Gly	Gly	Ala	Lys	Gln	Ala	Gly	Asp	Val
	50					55					60		

878

<210> 824
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 824
 Glu Glu Ile Asn Leu Ala Pro Asp Ser Ser Ser Val Val Val Ser Xaa
 1 5 10 15
 Leu Met Val Ala Thr Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp
 20 25 30
 Thr Leu Thr Ser Arg Pro Ala Gln Gly Val Val Thr Thr Xaa Xaa Asn
 35 40 45
 Val Ser Pro Xaa Xaa
 50

<210> 825
 <211> 26
 <212> PRT
 <213> Homo sapiens

879

<400> 825

Ser Arg Phe Thr Asp Asp Asp Lys Thr Asp His Leu Ser Trp Glu Trp
 1 5 10 15

Asn Leu Thr Ile Lys Lys Asp Trp Lys Asp
 20 25

<210> 826

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 826

Arg Ser Val Arg Ala Leu Leu Cys Thr Leu Arg Ala Val Pro Leu Pro
 1 5 10 15

Ala Ala Pro Cys Pro Pro Arg Pro Trp Gln Leu Gly Val Gly Ala Val
 20 25 30

Arg Thr Leu Arg Thr Gly Pro Ala Leu Leu Ser Val Arg Lys Phe Thr
 35 40 45

Xaa Lys His Glu Trp Val Asn Asn Arg Lys Trp His Trp Asn Ser Gly
 50 55 60

Asn Pro Ala Ile Leu His Arg Lys Arg Trp Glu Ile Leu Phe Ile Val
 65 70 75 80

Ile Ser Leu Lys Phe Gly Thr Lys Phe Glu Thr Asn Lys Leu Ile Leu
 85 90 95

Gly Cys Phe Trp Arg Val
 100

<210> 827

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

880

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 827

Pro	His	Ser	Arg	Ala	Leu	Leu	Thr	Pro	Asn	Arg	Ala	Pro	Lys	Lys	Lys
1				5				10					15		

Met	Ala	Ile	Ser	Gly	Val	Pro	Val	Leu	Gly	Phe	Phe	Ile	Ile	Ala	Val
			20					25					30		

Leu	Met	Ser	Ala	Gln	Glu	Ser	Trp	Ala	Ile	Lys	Glu	Glu	His	Val	Ile
		35					40					45			

Ile	Gln	Ala	Glu	Phe	Tyr	Leu	Asn	Pro	Asp	Gln	Ser	Gly	Glu	Phe	Met
	50					55					60				

Phe	Asp	Phe	Asp	Gly	Asp	Glu	Ile	Phe	His	Val	Asp	Met	Ala	Lys	Lys
65				70					75					80	

Glu	Thr	Val	Trp	Arg	Leu	Glu	Glu	Phe	Gly	Arg	Phe	Ala	Ser	Phe	Xaa
			85						90					95	

Ala	Gln	Gly	Ala	Leu	Ala	Asn	Ile	Ala	Val	Asp	Lys	Ala	Asn	Leu	Glu
		100						105					110		

Ile	Met	Thr	Lys	Arg	Ser	Asn	Tyr	Thr	Pro	Ile	Thr	Asn	Val	Pro	Xaa
		115					120					125			

Glu	Val	Xaa	Cys	Ala	His	Xaa	Gln	Pro	Cys	Gly	Thr
	130					135					140

<210> 828

<211> 88

<212> PRT

<213> Homo sapiens

881

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 828

Arg Xaa Asp Glu Asn Lys Val Asp Gly Met Asn Ala Pro Lys Gly Gln
1 5 10 15

Thr Gly Asn Ser Ser Arg Gly Pro Gly Asp Gly Gly Asn Arg Asp His
20 25 30

Trp Lys Glu Ser Asp Arg Lys Asp Gly Lys Lys Asp Gln Asp Ser Arg
35 40 45

Ser Ala Pro Glu Pro Lys Lys Pro Glu Glu Asn Pro Ala Ser Lys Phe
50 55 60

Ser Ser Ala Ser Lys Tyr Ala Ala Leu Ser Val Asp Gly Glu Asp Glu
65 70 75 80

Asn Glu Gly Glu Asp Tyr Ala Glu
85

<210> 829

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

882

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 829

Ile	Leu	Pro	Gly	Tyr	Ile	Asp	Phe	Thr	Ala	Asp	Gln	Val	Asp	Leu	Thr
1				5					10					15	

Ser	Ala	Leu	Thr	Lys	Lys	Ile	Thr	Leu	Lys	Thr	Pro	Leu	Val	Ser	Ser
		20						25					30		

Pro	Met	Asp	Thr	Val	Thr	Glu	Ala	Gly	Met	Ala	Ile	Ala	Met	Ala	Leu
		35					40					45			

Thr	Gly	Gly	Ile	Gly	Phe	Ile	His	His	Asn	Cys	Thr	Pro	Glu	Phe	Gln
	50					55						60			

Ala	Asn	Glu	Val	Arg	Lys	Val	Lys	Lys	Tyr	Glu	Gln	Gly	Phe	Ile	Thr
65					70					75					80

Asp	Pro	Val	Val	Leu	Ser	Pro	Lys	Asp	Arg	Val	Arg	Asp	Val	Phe	Glu
				85					90					95	

Ala	Lys	Ala	Arg	His	Gly	Phe	Cys	Gly	Ile	Pro	Ile	Thr	Asp	Thr	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

883

100	105	110
Arg Met Gly Ser Arg Leu Val Gly Ile Ile Ser Ser Arg Asp Ile Asp		
115	120	125
Phe Leu Lys Glu Glu Glu His Asp Xaa Phe Leu Glu Glu Ile Met Thr		
130	135	140
Lys Arg Glu Asp Leu Val Val Ala Pro Ala Gly Ile Thr Leu Lys Glu		
145	150	155
Ala Asn Glu Ile Leu Gln Arg Xaa Lys Xaa Gly Lys Val Pro Ile Xaa		
165	170	175
Asn Glu Met Met Ser Leu Xaa Ala Xaa Trp Pro Asp Arg Xaa Glu Glu		
180	185	190
Glu Ser Gly Xaa Pro Leu Ala Ser Lys Met Pro Glu Gln Xaa Trp Val		
195	200	205
Gly Xaa His Gly Thr Met Gly Ala Ser		
210	215	

<210> 830

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

884

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 830

Trp	Lys	Phe	Pro	Xaa	Asp	Thr	Xaa	Xaa	Arg	Tyr	Ala	Cys	Arg	Tyr	Arg
1				5					10					15	

Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	His	Ala	Ser	Gly	Ala
			20					25					30		

Ala	Glu	Thr	Pro	Pro	Ala	Trp	His	Leu	Gly	Ala	Gln	Arg	Ser	Pro	Asp
		35					40					45			

Thr	Ala	Ala	Ala	Ala	Met	Glu	Ser	Glu	Thr	Glu	Pro	Glu	Pro	Xaa	Thr
	50					55					60				

Leu	Leu	Xaa	Lys	Ser	Pro	Asn	Gln	Arg	His	Arg	Asp	Leu	Glu	Leu	Ser
65					70					75					80

Gly	Asp	Arg	Gly	Trp	Ser	Val	Gly	His	Leu	Lys	Ala	His	Leu	Ser	Arg
				85					90					95	

Xaa	Tyr	Pro	Glu	Arg	Xaa	Arg
						100

<210> 831

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 831

Asn	Pro	Ser	Ser	Ser	Tyr	Arg	Ser	Ala	Arg	Val	Gly	Gly	Met	Ser	Val
1					5					10				15	

885

Ala Cys Val Leu Lys Arg Lys Ala Val Leu Trp Gln Asp Ser Phe Ser
 20 25 30

Pro His Leu Lys His His Pro Gln Glu Pro Ala Asn Pro Asn Met Pro
 35 40 45

Val Val Leu Thr Ser Gly Thr Gly Ser Gln Ala Xaa His Asn Gln Leu
 50 55 60

Gln Ile Arg Leu Leu Gln Leu Gly Leu Thr Pro Ala Leu Ser Gln Asp
 65 70 75 80

Leu

<210> 832
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 832
 Lys Arg Ser Leu Met Thr Arg Gly Leu Ser Leu Ala Leu Ala Val Val
 1 5 10 15

Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg
 20 25 30

Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala
 35 40 45

Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp
 50 55 60

Arg Leu Met Arg Tyr Phe Leu Leu Thr His Leu Cys Gly Ile Ser His
 65 70 75 80

Arg Ile Trp Cys Thr Leu Ser Thr Ile Cys Ser Asp Ala Ala
 85 90

<210> 833
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 833
 Gly Asp Arg Gly Pro Gly Leu Cys Leu His Arg Gln Val Pro Glu His

886

```

      1             5             10             15
Leu Gly Pro Asp Phe Gly His Leu His Asp His Ser Ala His His His
      20             25             30
Pro Ser Val Gly Arg Pro Gly Pro Ala Ile Asp Gln Glu Ala Ser Leu
      35             40             45
Arg Pro Gly Ala Leu Pro Val Thr Cys Ile Pro Arg Thr Leu Ser Ser
      50             55             60
Ile Pro Arg Pro Ala Pro Arg Gly Gln Glu Leu Cys Pro
      65             70             75

```

<210> 834

<211> 146

<212> PRT

<213> Homo sapiens

<400> 834

```

Phe Arg Phe Ile Asn Ala Arg Arg Arg Ile Val Gln Pro Met Ile Asp
  1             5             10             15
Gln Ser Asn Arg Ala Val Ser Gln Gly Ala Ala Tyr Ser Pro Glu Gly
      20             25             30
Gln Pro Met Gly Ser Phe Val Leu Asp Gly Gln Gln His Met Gly Ile
      35             40             45
Arg Pro Ala Gly Leu Gln Ser Met Pro Gly Asp Tyr Val Ser Gln Gly
      50             55             60
Gly Pro Met Gly Met Ser Met Ala Gln Pro Ser Tyr Thr Pro Pro Gln
      65             70             75             80
Met Thr Pro His Pro Thr Gln Leu Arg His Gly Pro Pro Met His Ser
      85             90             95
Tyr Leu Pro Ser His Pro His His Pro Ala Met Met Met His Gly Gly
      100             105             110
Pro Pro Thr His Pro Gly Met Thr Met Ser Ala Gln Ser Pro Thr Met
      115             120             125
Leu Asn Ser Val Asp Pro Asn Val Gly Gly Gln Val Met Asp Ile His
      130             135             140

```

Ala Gln

145

887

<210> 835
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 835
Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
1 5 10 15
Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
20 25 30
Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
35 40 45
Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
50 55 60
Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
65 70 75 80
Arg Trp Glu Leu Ser Ser Gln Pro Thr Ile Pro Ile Val Gly Xaa Ile
85 90 95
Ala Gly Leu Val Leu Leu Gly Leu
100

<210> 836
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

888

<400> 836

Gly Gly Trp Thr Gln Arg Arg Leu Ser Pro Pro Gly His Ser Glu Ser
1 5 10 15

Ala Gln Ser Lys Met Leu Ser Gly Ile Gly Gly Phe Val Leu Gly Ser
20 25 30

Ser Ser Ser Gly Trp Ala Tyr Tyr Pro Ser Xaa Asp Gln Lys Xaa Leu
35 40 45

Leu His
50

<210> 837

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

889

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 837

Xaa	Arg	Ser	Ser	Leu	Xaa	Thr	Ile	Asn	Tyr	Asn	Glu	Phe	Pro	Thr	Met
1				5				10					15		

Val	Phe	Pro	Ser	Gly	Gln	Ile	Ser	Xaa	Gly	Ser	Xaa	Leu	Ala	Pro	Ala
			20				25					30			

Pro	Pro	Gln	Val	Pro	Ala	Pro	Gly	Ser	Ser	Pro	Cys	Pro	Xaa	Xaa	Gln
		35				40					45				

Xaa	Trp	Tyr	Gln	Leu	Trp	Pro	Arg	Pro	Gln	Xaa	Leu	Cys	Pro
50					55					60			

<210> 838

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 838

His	Glu	Leu	Thr	Ala	Lys	Tyr	Leu	Asn	Tyr	Tyr	Arg	Gly	Met	Leu	Asp
1				5				10				15			

Val	Ala	His	Glu	Gln	Val	Asp	Phe	Lys	Asp	Phe	Tyr	Pro	Ala	Ile	Ala
			20				25				30				

890

Val Asn Asp Val Arg Gln Ala Ala Arg Ser Ala Ala Ser Tyr Met Leu
35 40 45
Phe Asp Pro Lys Asp Ser Val Met Gln Gln Asn Leu Val Tyr Tyr Arg
50 55 60
Phe His Arg Ala Arg Trp Gly Leu Glu Glu Glu Asp Phe Gln Pro Arg
65 70 75 80
Glu Glu Ala Met Leu Tyr His Asn Gln Thr Ala Glu Leu Arg Xaa Cys
85 90 95
Trp Ser Ser Xaa Thr Cys Thr Cys Xaa
100 105

<210> 839
<211> 49
<212> PRT
<213> Homo sapiens

<400> 839
Pro Asp Arg Pro Trp Ala Lys Pro Glu Asp Pro Ser Leu Leu Glu Asp
1 5 10 15
Pro Arg Ile Lys Ala Ile Ala Ala Lys His Asn Lys Thr Thr Ala Gln
20 25 30
Val Leu Ile Arg Phe Pro Met Gln Arg Asn Gly Gly Gly Ser Pro Ser
35 40 45
Leu

<210> 840
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)

891

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 840

Ser	Lys	Gly	Ile	Arg	Asp	Asn	Glu	Arg	Ser	Gly	Arg	Ala	Arg	Val	His
1				5					10					15	

Val	Ser	Glu	Glu	Gly	Thr	Glu	Pro	Glu	Ala	Met	Leu	Gln	Val	Leu	Gly
		20						25					30		

Pro	Lys	Pro	Ala	Leu	Pro	Ala	Gly	Thr	Xaa	Asp	Thr	Ala	Lys	Glu	Asp
		35					40					45			

Ala	Ala	Asn	Arg	Xaa	Leu	Ala	Lys	Leu	Tyr	Lys	Val	Ser	Asn	Gly	Ala
	50					55					60				

Trp	Thr	Met	Ser	Val	Ser	Leu	Leu	Ala	Asp	Glu	Asn	Pro	Ser	Ala	Lys
65						70				75				80	

Gly	Pro	Glu	Ile	Gln	Lys	Thr	Ala	Ser	Ser	Trp	Thr	Thr	Gln	Xaa	Xaa
				85					90					95	

Lys	Ser	Leu	Ser
		100	

<210> 841

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 841

Gly	Asn	Gly	Gly	Arg	Asp	Phe	Val	Arg	Arg	Asp	Leu	Ala	Ile	Arg	Asp
1				5						10				15	

Thr	Phe	Val	Asn	Ala	Ser	Arg	Thr	Leu	Tyr	Ser	Ser	Ser	Pro	Arg	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

892

	20		25		30	
Leu	Ser	Asn	Asn	Ser	Asp	Ala
	35		40		45	
Asn	Leu	Glu	Leu	Ile	Asn	Thr
						Trp
						Val
Ala	Lys	Asn	Thr	Asn	Asn	Lys
	50		55		60	
Ile	Ser	Arg	Leu	Leu	Asp	Ser
						Leu
						Xaa
Ser	Asp	Thr	Arg	Leu	Val	Leu
	65		70		75	
Leu	Leu	Asn	Ala	Ile	Leu	Pro
						Glu
						Cys
						Gln
						80
Val	Glu	Asp	Asn	Ile		
						85

<210> 842

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

893

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 842

Xaa Thr Asn Met Ala Phe Ser Pro Phe Xaa Ile Ala Ser Xaa Leu Thr
 1 5 10 15

Xaa Val Leu Leu Gly Xaa Gly Asp Asn Thr Lys Thr Asn Leu Glu Ser
 20 25 30

Xaa Leu Ser Tyr Pro Xaa Asp Phe Thr Xaa Val His Gln Ala Leu Lys
 35 40 45

Gly Xaa Thr Thr Lys Gly Val Thr Ser Val Ser Gln Ile Phe Xaa Cys
 50 55 60

Pro Glu Leu Ala Ile Arg Asp Pro Leu Xaa Asn Ala Xaa Arg Thr Leu
 65 70 75 80

Phe

894

<210> 843
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 843
 Gly Thr Ser Lys Ala Gln Asp Gly Thr Phe Ser Ser Val Leu Thr Leu
 1 5 10 15
 Thr Asn Leu Thr Gly Leu Asp Thr Gly Glu Tyr Phe Cys Thr His Asn
 20 25 30
 Asp Ser Arg Gly Leu Glu Thr Asp Glu Arg Lys Arg Leu Tyr Ile Phe
 35 40 45
 Val Pro Glu Ala Thr Ser Ala Lys Pro Pro Leu Gly Thr Gly Arg Trp
 50 55 60
 Ile Leu Met Pro Thr Met Ser Thr Asp Ser Arg Val Ser Pro Leu Ser
 65 70 75 80
 Gly Leu Met Leu Ser Arg Val Phe Ile His Gln Arg Leu Cys Gly Thr
 85 90 95
 Xaa Xaa Gly Leu Trp Ser Ala Arg Trp Arg Thr Ser Pro Ser Xaa Ala
 100 105 110
 Leu Trp Ile Gly Xaa Glu Val Ser Ile
 115 120

895

<210> 844
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 844
 Xaa Arg Ala Gly Leu Gly Pro Gly Pro Trp Ala Xaa Pro His Ser Pro
 1 5 10 15

Trp Arg Ser Trp Arg Pro Leu Gln Ser Pro Lys Gly Leu Gly Arg Ser
 20 25 30

Trp Ala Val Arg Val Ser Arg Cys Pro Met Thr Lys Thr Phe Ala Ala
 35 40 45

Ser Gly Gln Thr Gly Tyr Leu Ile Gln Ser Thr Gly Pro Lys Ser Cys
 50 55 60

Val Ile Thr Tyr Leu Ala Gln Val Asp Pro Lys Gly Ser Leu Pro Lys
 65 70 75 80

Trp Val Val Asn Lys Ser Ser Gln Phe Leu Ala Pro Lys Ala Met Lys
 85 90 95

Lys Met Tyr Lys Ala Cys Leu Lys Tyr Pro Glu Trp Lys Gln Lys His

896

100 105 110
 Leu Pro His Phe Lys Pro Trp Leu His Pro Glu Gln Ser Pro Xaa Pro
 115 120 125
 Ser Leu Xaa Leu Arg Ser Xaa Arg
 130 135

<210> 845
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 845
 Pro Lys Gln Leu Glu Ala Leu Cys Val Gly Ala Ala Thr Gly Pro Arg
 1 5 10 15
 Ala Met Trp Leu Cys Pro Leu Ala Leu Asn Leu Ile Leu Met Ala Ala
 20 25 30
 Ser Gly Ala Val Cys Glu Val Lys Asp Val Cys Val Gly Ser Pro Gly
 35 40 45
 Ile Pro Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg Asp Gly Arg
 50 55 60
 Asp Gly Val Lys Gly Asp Pro Gly Pro Pro Gly Pro Met Gly Pro Pro
 65 70 75 80
 Gly Glu Met Pro Cys Pro Pro Gly Asn Asp Gly Leu Pro Gly Ala Pro
 85 90 95
 Gly Ile Pro Gly Glu Cys Gly Glu Lys Gly Glu Pro Gly Glu Arg Gly
 100 105 110
 Pro Pro Gly Leu Pro Ala His Leu Asp Glu Glu Leu Gln Ala Thr Leu
 115 120 125
 His Asp Phe Arg His Gln Ile Leu Gln Thr Arg Gly Ala Leu Ser Leu
 130 135 140

Gln
 145

<210> 846
 <211> 61
 <212> PRT

897

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Lys	Leu	Pro	Leu	Lys	Ala	Lys	Met	Gly	Lys	Glu	Lys	Thr	His	Ile	Asn
1				5				10						15	

Ile	Val	Val	Ile	Gly	His	Val	Asn	Ser	Gly	Lys	Ser	Thr	Thr	Thr	Gly
			20				25						30		

His	Leu	Ile	Tyr	Ile	Cys	Gly	Gly	Phe	Xaa	Lys	Lys	Xaa	Phe	Glu	Xaa
		35				40						45			

Phe	Glu	Lys	Glu	Ala	Ala	Xaa	Met	Gly	Lys	Gly	Ser	Ser
	50					55					60	

<210> 847

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 847

Val	Gln	Pro	Ala	Leu	Ala	His	Arg	Ala	Val	Arg	Asp	Leu	Arg	Ala	Ala
1				5				10						15	

898

Cys Arg Gln Gly Ile Cys Gln Arg Leu Arg Ser Pro Glu Pro Pro Glu
 20 25 30
 Leu Gln His His Val Ile Trp Asp Leu Pro Gly Arg Gly Gly Gly Gly
 35 40 45
 Gly Phe Leu Arg Pro Pro His Leu Met Pro Thr Pro Cys Pro Ala Arg
 50 55 60
 His Gly Arg Gly Leu Glu Ala Xaa Glu Lys
 65 70

<210> 848

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 848

Leu Xaa Xaa Xaa Glu Ala Ala Met Phe His Arg Lys Leu Phe Glu Glu
 1 5 10 15

Leu Val Arg Ala Ser Ser His Ser Thr Asp Leu Met Glu Ala Met Ala
 20 25 30

Met Gly Ser Val Glu Ala Ser Tyr
 35 40

<210> 849

<211> 125

<212> PRT

<213> Homo sapiens

899

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 849

Glu	Glu	Leu	Gln	Val	Asp	Phe	Leu	Asp	His	Val	Pro	Leu	Thr	Thr	His
1				5					10					15	

Asn	Phe	Ala	Arg	Lys	Thr	Phe	Leu	Lys	Leu	Ala	Phe	Cys	Asp	Ile	Cys
		20						25					30		

Gln	Lys	Phe	Leu	Leu	Asn	Gly	Phe	Arg	Cys	Gln	Thr	Cys	Gly	Tyr	Lys
	35					40						45			

Phe	His	Glu	His	Cys	Ser	Thr	Lys	Val	Pro	Thr	Met	Cys	Val	Asp	Trp
	50					55					60				

Ser	Asn	Ile	Arg	Gln	Leu	Leu	Leu	Phe	Pro	Asn	Ser	Thr	Ile	Gly	Asp
65					70					75					80

Ser	Gly	Val	Pro	Ala	Leu	Pro	Ser	Leu	Thr	Met	Arg	Arg	Met	Arg	Glu
				85					90					95	

Ser	Val	Pro	Arg	Met	Pro	Val	Ser	Ser	Gln	His	Arg	Tyr	Ser	Thr	Pro
		100						105					110		

Xaa	Ala	Phe	Xaa	Phe	Xaa	Thr	Ser	Ser	Pro	Ser	Ser	Xaa
	115					120						125

<210> 850

<211> 52

<212> PRT

<213> Homo sapiens

900

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 850

Pro	Asp	Arg	Arg	Ala	Ala	Ile	Met	Asp	Thr	Ser	Arg	Val	Gln	Pro
1			5					10					15	

Ile	Xaa	Leu	Ala	Arg	Val	Thr	Xaa	Val	Leu	Gly	Arg	Thr	Gly	Ser	Gln
		20					25					30			

Gly	Gln	Cys	Thr	Gln	Val	Ile	Gly	Trp	Gly	His	Xaa	Ala	Asp	Cys	Arg
	35						40				45				

Xaa	Pro	Lys	Pro
	50		

<210> 851

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

901

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 851

Pro Thr Arg Pro Leu Pro Ala Pro Pro Leu Val Ser Ser Lys Met Ala
 1 5 10 15

Ser Gly Gly Ser Gly Gly Val Ser Val Pro Ala Leu Trp Ser Glu Val
 20 25 30

Asn Arg Tyr Gly Gln Asn Gly Asp Phe Thr Arg Ala Leu Lys Thr Val
 35 40 45

Asn Lys Ile Leu Gln Ile Asn Lys Asp Asp Val Thr Ala Leu His Cys
 50 55 60

Lys Val Val Cys Leu Ile Xaa Asn Gly Ser Phe Lys Glu Ala Leu Asn
 65 70 75 80

Val Ile Asn Thr His Thr Lys Val Xaa Ala Asn Asn Ser Leu Ser Phe
 85 90 95

Glu Xaa Ala Tyr Cys Glu Tyr Arg Leu Lys Gln Asn
 100 105

<210> 852

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

902

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 852

Ser Trp Arg Leu Cys Val Trp Val Ala Asp Phe Leu Glu Pro Glu Lys
 1 5 10 15

Lys Val Thr Gly His Met Arg Asp Arg Trp Ser Glu Ser Val Thr Gly
 20 25 30

Ala Ala Thr Gly Pro Arg Ala Met Trp Leu Cys Pro Leu Ala Leu Asn
 35 40 45

Leu Ile Leu Met Ala Ala Ser Gly Ala Ala Cys Glu Val Lys Asp Val
 50 55 60

Cys Val Gly Ser Pro Gly Ile Pro Gly Xaa Pro Gly Ser His Gly Leu
 65 70 75 80

Pro Xaa Xaa Glu Gly Xaa Asn Gly Val Lys Xaa Asp Pro Gly Pro Pro
 85 90 95

Xaa Pro Met Gly Pro Pro
 100

<210> 853

<211> 49

<212> PRT

<213> Homo sapiens

<400> 853

Asn Leu Met Gly Arg Tyr Gly Asp Asn Asn His Ser Gln Gly Val Asn
 1 5 10 15

Trp Phe His Trp Lys Gly His Glu His Ser Ile Gln Phe Ala Glu Met
 20 25 30

Lys Leu Arg Pro Ser Asn Phe Arg Asn Leu Glu Gly Arg Arg Lys Arg
 35 40 45

903

Ala

<210> 854

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 854

Leu Ser Ala Met Arg Phe Leu Ala Ala Thr Phe Leu Leu Leu Ala Leu
1 5 10 15

Ser Thr Ala Ala Gln Ala Glu Pro Val Gln Phe Lys Asp Cys Gly Ser

904

```

                20                25                30
Val Asp Gly Val Ile Lys Glu Val Asn Val Ser Pro Cys Pro Thr Gln
      35                40                45
Pro Cys Gln Leu Ser Lys Gly Gln Ser Tyr Ser Val Asn Val Thr Phe
      50                55                60
Thr Xaa Asn Ile Gln Xaa Lys Ser Xaa Lys Ala Val Val His Gly Ile
      65                70                75                80
Leu Met Gly Val Pro Val Pro Phe Pro Ile Pro Glu Pro Asp Gly Cys
      85                90                95
Lys Ser Gly Ile Asn Cys Pro Ile Gln Lys Asp Lys Thr Tyr Ser Tyr
      100                105                110
Leu Asn Lys Leu Pro Xaa Lys Ser Glu Tyr Pro Ser Ile Lys Leu Xaa
      115                120                125
Xaa Xaa
      130

```

<210> 855

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 855

```

Phe Ile Phe Thr Lys Trp Leu Gln Asp Val Phe Asn Val Pro Leu Val
  1             5             10             15

```

```

Ile Gln Met Thr Asp Asp Glu Lys Tyr Leu Trp Lys Asp Leu Thr Leu
      20                25                30

```

```

Asp Gln Ala Tyr Ser Tyr Ala Val Glu Asn Ala Lys Asp Ile Ile Ala
      35                40                45

```

```

Cys Gly Phe Asp Ile Asn Lys Thr Phe Ile Phe Ser Asp Leu Asp Tyr

```

905

50	55	60
Met Gly Met Ser Ser Gly Phe Tyr Lys Asn Val Val Lys Ile Gln Lys		
65	70	75 80
His Val Thr Phe Asn Gln Val Lys Gly Ile Phe Gly Phe Thr Asp Ser		
	85	90 95
Asp Cys Ile Gly Lys Ile Ser Phe Pro Ala Ile Gln Ala Ala Pro Ser		
	100	105 110
Phe Ser Asn Ser Phe Pro Gln Ile Phe Arg Asp Arg Thr Asp Ile Gln		
	115	120 125
Cys Leu Ile Pro Cys Ala Ile Asp Gln Asp Pro Tyr Phe Arg Met Thr		
	130	135 140
Arg Asp Val Ala Pro Arg Ile Gly Tyr Pro Lys Pro Ala Leu Xaa Thr		
	145	150 155 160
Pro Pro Ser Ser Gln Pro Cys Xaa Ala Pro Arg Pro Lys		
	165	170

<210> 856

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (120)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 856
 Ala His Cys Leu Gln Glu Ser Arg Glu Phe Gln Gly Lys Val Arg Ser
 1 5 10 15
 Gln Asp Pro Arg Glu Xaa Gly Gly Thr His Arg Leu Pro Gly His Gly
 20 25 30

907

Gly Arg Pro His Leu Arg Pro Xaa Leu Leu Pro Pro Gly Ala Thr Ala
35 40 45

Ser Ala Leu Gln Leu Met Met Arg Thr Arg Ile Ala Ala Gln Val Ser
50 55 60

Arg Phe Ala Ala Ile Leu Leu Gly Leu Gly Val His Ala Met Xaa Phe
65 70 75 80

Ser Asn Xaa Xaa Pro Gly Leu Xaa Leu Lys Ser Xaa Gln Lys Trp Xaa
85 90 95

Pro Lys Xaa Arg Glu Gln Thr Met Gly Pro Thr Xaa Gly Phe Ile Pro
100 105 110

Ser Phe Leu Leu Lys Gly Pro Xaa Phe Val Gly Glu Xaa Ile Glu Pro
115 120 125

Leu Cys Asn Val Asn Glu Asn Phe Xaa Lys Ile
130 135

<210> 857

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

908

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 857

Leu Val Xaa Xaa Ser Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe
1 5 10 15

Phe Phe Phe Lys Lys Xaa Lys Lys Lys Lys Xaa Gly Lys Xaa
20 25 30

<210> 858

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

909

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 858

Cys Trp Asn Gln Cys Phe Xaa His Val Phe Asn Ser Leu Val Tyr Gly
1 5 10 15

Xaa Pro Xaa Gln Met Tyr Leu Asn Lys Gln Lys Pro Phe Lys Lys Lys
20 25 30

Lys Lys Asn Pro Gly Gly Gly Ala Arg Xaa Pro Ile Pro Pro Lys Xaa
35 40 45

Gly Xaa Xaa Xaa His Ser Arg Ala Gly Val
50 55

<210> 859

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 859
Xaa Xaa Xaa Xaa Xaa Asn Pro Asn Xaa Xaa Pro Xaa Xaa Gly Met Leu

911

1 5 10 15
Ile Xaa Glu Xaa Val Lys Lys Val Lys Gly Asn Ser Gly Lys Ser Xaa
 20 25 30
Pro Ala Xaa Leu Pro Lys Thr Ser Xaa Leu Ala Ser Pro Val Leu Glu
 35 40 45
Ala Pro Ala Xaa Pro Val Asp Thr Cys Leu Thr Gly Arg Gly Tyr Pro
 50 55 60
Asn Arg Gly Lys Gly
 65

<210> 860

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

912

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 860

Xaa	Ala	Leu	Gly	Asn	Arg	Phe	Gly	Ala	Gly	Xaa	Gly	Arg	Arg	Leu	Trp
1				5					10					15	

Phe	Trp	Lys	Val	Val	Pro	Val	Val	Asp	Leu	Val	Xaa	Ala	Gly	Gly	Val
			20					25					30		

Val	Val	Xaa	Leu	Xaa	Leu	Val	Ala	Xaa	Cys	Val	Leu	Glu	Val	Xaa	Ser
		35					40					45			

<210> 861

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

913

<221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 861
 Asp Ile Leu Gln Leu Trp Asp Trp Cys Leu Thr Val Xaa Tyr Cys His
 1 5 10 15

 Val Asn Val Val Tyr Asp Xaa Lys Xaa Tyr Val Thr Lys Asp Phe Tyr
 20 25 30

 Ser Asp Xaa Phe Ile Ile Lys Gly His Met Arg Leu Val Glu Thr Xaa
 35 40 45

 Phe Val Val Lys Xaa Xaa Xaa Xaa Asn Phe Cys Thr
 50 55 60

<210> 862
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 862
 Asp Gly Ala Leu Leu Ile Pro His Gln Asp Glu Gln Ser Trp Pro Ser

914

1	5	10	15
Ile Met Thr Glu Arg Gly Arg Leu Arg Gly Ser Pro Asp Cys Xaa Glu			
20	25	30	
Leu Arg Thr Gln Trp Arg Phe Xaa Gly Thr Leu Arg Ser Leu Trp Gln			
35	40	45	
Ala Trp Ser Gly Ser Pro			
50			

<210> 863

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 863

Pro	Trp	Leu	Arg	His	Glu	Met	Glu	Pro	Leu	Ile	Xaa	Ile	Trp	Ser	Ser
1				5					10					15	

Ser	Leu	Ile	Thr	Asp	Gly	Xaa	Ile	Arg	Val	Trp	Val	Glu	Xaa	Leu	Xaa
			20					25					30		

Xaa	Lys	Lys	Gly	Cys	Phe	Trp	Ser	Xaa	Val	Phe	Phe	Xaa	Thr	Ser	Ala
	35						40					45			

Leu	Gly	Gly	Ile	Trp	Gln	Ile	Xaa	Arg	Xaa	Arg	Phe	Gly	Glu	Leu
	50					55					60			

<210> 864

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

917

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 864
Ile Arg Xaa Xaa Gln Arg Pro Lys Gln Leu Xaa Gly Arg Xaa Cys Xaa
1 5 10 15
Ser Xaa Asp Phe Leu Glu Pro Glu Lys Lys Xaa Glu Xaa Xaa Leu Val
20 25 30
Pro Xaa Xaa Met Trp Leu Cys Pro Ala Gly Pro Xaa Thr Xaa Ser Cys
35 40 45
Xaa Gly Xaa Phe Trp Cys Cys Val Arg Xaa Xaa Gly Thr Phe Gly Xaa
50 55 60
Gly Ser Pro Xaa Ile Pro Gly Thr Pro Gly Ser His Gly Leu
65 70 75

<210> 865
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

919

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 865

Ser Ile Asp Leu Val Asp Asn Thr Pro Ser Pro Pro Leu Arg Arg Cys
1 5 10 15

Phe Val Ile Xaa Xaa Pro Pro Thr Pro Arg Ala Glu Pro Xaa Xaa Pro
20 25 30

Phe Glu Glu Gly Xaa Leu Val Ile Leu Leu Cys Gly Xaa Trp Arg Asn
35 40 45

Val Xaa Xaa Val Lys Xaa Ala Ser Xaa Leu Gly Pro Xaa Xaa Ile Gly
50 55 60

Leu Val Lys
65

<210> 866

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 866

Ile Tyr Ala Val Val Ala Thr Asn Arg Pro Met Ile Xaa Leu Ala Gly
1 5 10 15

Gln Val Phe Ser Arg Ala Lys Ser Pro Ser Gly Pro Leu Ala Gly Lys
20 25 30

Ala Ser Arg Ser Ala Leu Ser Cys Gln Thr Ser Gly Arg Ile Pro Gly
35 40 45

Arg Gln Lys Pro Leu His Leu Leu Cys Arg Thr Leu His Phe Pro Asn
50 55 60

Pro Pro Gln Val Gly Arg Ala Glu Gly Ala Ser Ala Ser Leu Asp
65 70 75

<210> 867
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

921

<400> 867

Thr Gly Thr Ser Leu Met Cys Pro Cys Pro Ser Asp Asp Ser Trp Gly
 1 5 10 15

Ser Gly Gly Gly Glu Ser Pro Arg Thr Arg Ala Val Ala Phe Pro Gln
 20 25 30

Leu Leu Arg Leu Pro Ala Phe Pro Ala Glu Thr Ala Arg Pro Val Gly
 35 40 45

Trp Arg Gly Arg Pro Gly Leu Gln Thr Thr Ser Ala Ile Thr Trp Leu
 50 55 60

Xaa Val Pro Lys Gln Asp Ile His Thr Val Pro Leu Xaa Pro Ser Ser
 65 70 75 80

Ser Xaa Lys Xaa Lys Gly Lys Ala Lys Leu Lys Xaa Leu Leu Gly Pro
 85 90 95

Trp Leu Xaa Ser Phe Phe Pro Xaa Pro Xaa Ala Leu Pro Xaa Ala Arg
 100 105 110

Leu Lys Lys Thr
 115

<210> 868

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

922

<400> 868

Pro Ser Phe Leu Lys Pro Arg Cys Val Pro Gln Leu Gln Arg Val Gly
1 5 10 15

Met Gly Ile Thr Leu Asn Cys Gly Lys Ala Glu Trp Lys Xaa Gln Phe
20 25 30

His Arg Xaa Lys Gln Leu Leu Gly Xaa Tyr Ser Val Pro Arg Xaa Arg
35 40 45

Glu Asn Phe Leu Gly Lys Tyr Phe Val
50 55

<210> 869

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 869

Pro Leu Tyr Leu Leu His Asn Glu Leu Thr Arg Asn Asn Phe Ala Arg
1 5 10 15

Arg Ala Lys Ala Lys Thr Pro Glu Thr Arg Arg Ala Thr Xaa Glu Thr
20 25 30

Ala Xaa Arg Ala His Pro Ser Met
35 40

<210> 870

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870

Val	Asn	Val	Thr	Tyr	Xaa	Gln	Phe	Ser	Leu	Phe	Glu	Tyr	Arg	Met	Xaa
1					5				10					15	

Thr	Leu	His	Xaa	Xaa	Ile	Xaa	Arg	Ala	Trp	Gly	Ile	Leu	Pro	Met	Asn
			20				25						30		

Phe	Leu	Gln	Ala	His	Leu
					35

<210> 871

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 871

Ala	Lys	Leu	Phe	Gly	Lys	Val	Leu	Pro	Thr	Ala	Pro	Val	Arg	Val	Ile
1					5				10					15	

Leu	Ala	Pro	Leu	Arg	Lys	Gly	Val	Arg	Val	Ser	Val	Pro	Pro	Ala	Thr
			20				25							30	

924

Pro Pro Ala Phe Pro Ser Leu Pro Ile Ser Leu Pro Gln Gly Pro Glu
35 40 45

Leu Pro Pro Asp Trp Arg Ala Ser Pro Ala Gln Pro Arg His Arg Pro
50 55 60

Pro Ser Gly Pro Pro Val Ala Arg Phe Pro Gly Phe Ile Pro Gln Pro
65 70 75 80

Leu Leu Xaa Pro Phe Ile Pro Ile Ser Tyr Cys Tyr Cys Cys Glu
85 90 95

<210> 872

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 872

Ala Gln Trp Gln Cys Ser Glu Xaa Arg Phe Ser Pro Pro Val Ser Ala
1 5 10 15

Val Thr Ala Leu Gly Phe Ser Arg Xaa Xaa Phe Leu Ile Leu
20 25 30

<210> 873

<211> 76

<212> PRT

<213> Homo sapiens

<400> 873

Thr Lys Ile Leu Gln Ile Val Pro His Glu Tyr Pro Pro Ser Ser Ala
1 5 10 15

925

Ile Leu Gln Ser Gly Asn Arg Trp Val Glu Ala Ala Gln Val Asn Tyr
20 25 30

Pro Ala Cys Leu Ser Ile His Ser Ser Ser Ser Ser Gln Arg Leu Lys
35 40 45

Ala Gly Pro Phe Gln Ser Ser Gln Pro Val Leu His Leu Val Pro Pro
50 55 60

Asp Pro Gly Met Glu Ala Leu Ser Pro Thr Val Trp
65 70 75

<210> 874

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

926

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 874

Arg	Thr	Leu	Phe	Lys	Thr	Gly	Ser	Ser	Ile	Gly	Trp	Ser	Asn	Lys	Asp
1				5					10					15	

Ser	Leu	Gln	Val	Gln	Phe	Xaa	Gly	Pro	Xaa	Gly	Lys	Leu	Xaa	Thr	Asn
		20						25						30	

His	Asn	Gly	Leu	Ile	Lys	Arg	Xaa	Thr	Ile	Ile	Xaa	Leu	Gln	Arg	Leu
		35					40					45			

Leu	Tyr	Arg	Gly	Xaa	Ile	Leu	Tyr	Leu	Pro	Gln	Xaa	Ser
	50					55						60

<210> 875

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 875

Lys	Leu	His	Leu	Gln	Ile	Phe	Leu	Pro	Met	Asn	Asn	Val	Val	Asp	Ser
1				5					10					15	

Val	His	Ser	Phe	Ser	Leu	Ser	Leu	Ser	Leu	Ser	His	Thr	His	Thr	His
			20					25						30	

Thr	His	Thr	His	Thr	His	Arg	His	Gly	Thr	Ile	Leu	Pro	Gly	Ala	Leu
		35					40						45		

Glu	His	Ile	Pro	Gly	Gly	His	Arg	Trp	Ser	Glu	Ser	Leu	Gly	Gly	Tyr
	50						55								60

927

Leu Ser Xaa Leu Gly Xaa Pro Asn Val Ser Trp Gly Xaa
 65 70 75

<210> 876

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 876

Leu Val Pro Asn Ser Ala Arg Gly Glu Arg Glu Arg Glu Arg Glu Arg
 1 5 10 15

Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg
 20 25 30

Glu Arg Glu Arg Glu Xaa Gly Xaa Xaa
 35 40

<210> 877

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 877

Leu	Asp	Leu	Leu	Tyr	Arg	Asp	Met	Val	Gln	Xaa	Gly	Leu	Leu	Lys	Phe
1				5					10					15	

Ile	Glu	His	Xaa	Asn	Tyr	Glu	Thr	Xaa	Thr	Phe	Tyr	Ile	Ser	Glu	Asp
			20					25					30		

Met	Gly	Xaa	Asn	Leu	Trp	Lys	Ile	Gln	Val	Ala	Gly	Xaa
		35					40					45

<210> 878

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

929

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 878

Arg Gly Pro Arg Ala Arg Asp Ala Ala Ala Leu Pro Pro Pro Thr Pro
 1 5 10 15

Thr Ala Pro Ser Phe Ala Ser Ser Pro Gly Ala Ser Pro Arg His Arg
 20 25 30

Arg Arg Pro Gly His Arg His Pro Pro Gln Pro Cys Pro Pro Gly Pro
 35 40 45

Cys Pro Arg Pro Pro Thr Ala Gly Cys Ser Ala Ala Arg Ala Pro Arg
 50 55 60

Ala Gly Arg Ala Xaa Arg Glu Leu Arg Asp Tyr Val Thr Arg Thr Tyr
 65 70 75 80

Ser Leu Xaa Ser Ala Leu Ser Pro Asn Xaa Ser Arg Thr Ser Thr Leu
 85 90 95

Xaa Pro Gly Arg Arg Val Cys His Ala Leu Leu
 100 105

<210> 879

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 879

Ile Leu Thr Tyr Ile Phe Thr Pro Asn Phe Thr Phe Ser Glu Ile Arg
 1 5 10 15

Ile Ser Leu Val Ala Gln Leu Thr Xaa Asn Gln Glu Ser Phe Lys Lys
 20 25 30

Met Ile Leu Lys Met Ala Gly Lys Ile Ser Phe Tyr Cys Arg Gln Phe
 35 40 45

930

Leu Asn Trp Lys Phe Gly Xaa Met His Asn Lys Ser Cys Gly
 50 55 60

<210> 880

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 880

Gly Thr Arg Arg Glu Arg Glu Arg Xaa Arg Glu Arg Glu Arg Glu Arg
 1 5 10 15

Glu Arg Glu Arg Glu Arg Glu Xaa Xaa
 20 25

<210> 881

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 881
Arg Cys Ala Ile Asp Phe Phe Ser Ser Trp Leu Phe Asn Ser Pro Val
1 5 10 15
Ser Ile Thr Val Leu Pro His Xaa Gly Xaa Thr Glu Arg Lys Leu Ala
20 25 30
Phe Leu Phe Phe Leu Gly Pro Leu Pro Pro Arg Pro Leu Asn Phe Trp
35 40 45
Asn Pro Lys Glu Asn Xaa Xaa Gly Lys Thr Xaa Phe Xaa Gly Phe Xaa
50 55 60
Lys Asn Trp Glu Xaa Xaa Pro
65 70

932

<210> 882
 <211> 127
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 882
 Ala Gln Pro Arg Thr Gly Val Asp Ser Pro Thr Ser Thr Ser Phe Leu
 1 5 10 15
 Leu Cys Ser Gln Thr Met Ser Gly Pro Pro Ser Ser Arg Ala Arg Xaa
 20 25 30
 Pro Gly Gly Ser Ser Pro Thr Pro Thr Pro Val Ser Ala Gly Thr Gly
 35 40 45
 Ser Phe Leu Arg Ala Lys Val Lys Asp Pro Leu Cys Glu Gly Ser Ala
 50 55 60
 Glu Val Gly Ser His Ala Pro Ser Arg Pro Leu Pro Ala Leu His Ser
 65 70 75 80
 Gly Arg Asn Leu Ser Phe Pro Cys Glu Lys Gly Gln Arg Val Gln Ala
 85 90 95
 Ser Gln Val Gln Arg Glu Gly Pro Gln Xaa Leu Leu Ala Ala Lys His
 100 105 110
 Ala Asp Pro Met Asp Ile Xaa Gly Lys Gly Ser Leu Pro Ala Xaa
 115 120 125

933

<210> 883
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 883
 Lys Met Lys Pro Lys Met Lys Tyr Ser Thr Asn Lys Ile Ser Thr Ala
 1 5 10 15
 Lys Trp Lys Asn Thr Ala Ser Lys Ala Leu Cys Phe Lys Leu Gly Lys
 20 25 30
 Ser Gln Gln Lys Xaa Lys Glu Val Cys Pro Met Tyr Phe Met Lys Leu
 35 40 45
 Arg Ser Gly Leu Met Ile Lys Lys Glu Ala Trp Xaa Phe Xaa Arg Glu
 50 55 60
 Thr Thr
 65

<210> 884
 <211> 16
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

934

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 884

Gly Ala Met Arg Gly Asp Arg Gly Leu Trp Ser Trp Xaa Thr Leu Xaa
 1 5 10 15

<210> 885

<211> 37

<212> PRT

<213> Homo sapiens

<400> 885

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg
 1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu
 20 25 30

Ser Lys Ile Glu Ser
 35

<210> 886

<211> 91

<212> PRT

<213> Homo sapiens

<400> 886

Arg Arg Gly Phe Pro Gly Tyr Met Tyr Thr Asp Leu Ala Thr Ile Tyr
 1 5 10 15

Glu Arg Ala Gly Arg Val Glu Gly Arg Asn Gly Ser Ile Thr Gln Ile
 20 25 30

Pro Ile Leu Thr Met Pro Asn Asp Asp Ile Thr His Pro Ile Pro Asp
 35 40 45

Leu Thr Gly Tyr Ile Thr Glu Gly Gln Ile Tyr Val Asp Arg Gln Leu
 50 55 60

His Asn Arg Gln Ile Tyr Pro Pro Ile Asn Val Leu Pro Ser Leu Ser
 65 70 75 80

935

Thr Val Asn Glu Val Cys Tyr Trp Arg Arg Gly
 85 90

<210> 887
 <211> 733
 <212> DNA
 <213> Homo sapiens

<400> 887
 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 aattcgaggg tgcaccgtca gtcttctctt tcccccaaaa acccaaggac accctcatga 120
 tctcccggac tcctgagggt acatgcgtgg tggaggacgt aagccacgaa gaccctgagg 180
 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
 ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360
 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct 480
 atccaagcga catcgccgtg gagggggaga gcaatgggca gccggagAAC aactacaaga 540
 ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600
 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
 acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
 gactctagag gat 733

<210> 888
 <211> 5
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 888
 Trp Ser Xaa Trp Ser
 1 5

<210> 889
 <211> 86
 <212> DNA
 <213> Homo sapiens

<400> 889
 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60

936

cccgaaatat ctgccatctc aattag

86

<210> 890

<211> 27

<212> DNA

<213> Homo sapiens

<400> 890

gcggcaagct ttttgcaaag cctaggc

27

<210> 891

<211> 271

<212> DNA

<213> Homo sapiens

<400> 891

ctcgagatTT ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 892

<211> 32

<212> DNA

<213> Homo sapiens

<400> 892

gcgctcgagg gatgacagcg atagaacccc gg

32

<210> 893

<211> 31

<212> DNA

<213> Homo sapiens

<400> 893

gcgaagcttc gcgactcccc ggatccgcct c

31

<210> 894

<211> 12

<212> DNA

<213> Homo sapiens

<400> 894

ggggactttc cc

12

<210> 895

<211> 73

<212> DNA

<213> Homo sapiens

<400> 895

gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 896

<211> 256

<212> DNA

<213> Homo sapiens

<400> 896

ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
caattagtca gcaaccatag tcccgccct aactccgccc atcccgcgcc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 September 2000 (21.09.2000)

PCT

(10) International Publication Number
WO 00/55180 A3

- (51) International Patent Classification⁷: A01N 43/04, C07H 21/02, 21/04, C12Q 1/68
- (21) International Application Number: PCT/US00/05918
- (22) International Filing Date: 8 March 2000 (08.03.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/124,270 12 March 1999 (12.03.1999) US
- (71) Applicants (*for all designated States except US*): HUMAN GENOME SCIENCES, INC. [US/US]; 9410 Key West Avenue, Rockville, MD 20850 (US). ROSEN, Craig, A. [US/US]; 22400 Rolling Hill Road, Laytonsville, MD 20882 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): RUBEN, Steven, M. [US/US]; 18528 Heritage Hills Drive, Laytonsville, MD 20882 (US).
- (74) Agents: WALES, Michele, M. et al.; Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, MD 20850 (US).
- (81) Designated States (*national*): AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— *With international search report.*
- (88) Date of publication of the international search report:
18 January 2001
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 00/55180 A3


(54) Title: HUMAN LUNG CANCER ASSOCIATED GENE SEQUENCES AND POLYPEPTIDES

(57) Abstract: This invention relates to newly identified lung or lung cancer related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "lung cancer antigens", and to the complete gene sequences associated therewith and to the expression products thereof, as well as the use of such lung cancer antigens for detection, prevention and treatment of disorders of the lung, particularly the presence of lung cancer. This invention relates to the lung cancer antigens as well as vectors, host cells, antibodies directed to lung cancer antigens and recombinant and synthetic methods for producing the same. Also provided are diagnostic methods for diagnosing and treating, preventing and/or prognosing disorders related to the lung, including lung cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of lung cancer antigens of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and/or function of the polypeptides of the present invention.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/05918

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A01N 43/04; C07H 21/02, 21/04; C12Q 1/68 US CL : 435/06; 514/44; 536/23.1, 24.3 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 435/06; 514/44; 536/23.1, 24.3 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GERHOLD et al. It's the genes! EST access to human genom content. BioEssays. 1996, Vol. 18, No. 12, pages 973-981.	1-10
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* "A" "E" "L" "O" "P"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art *A* document member of the same patent family
Date of the actual completion of the international search 23 MAY 2000		Date of mailing of the international search report 19 OCT 2000
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230		Authorized officer MICHAEL BORIN  Telephone No. (703) 308-4196

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/05918

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-10, SEQ ID No.:1

Remark on Protest

☐

The additional search fees were accompanied by the applicant's protest.

☐

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05918

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional examination fees must be paid.

Group I, claims 1-10, drawn to nucleic acids, vectors, host cells and method of making recombinant cell using said nucleic acids.

Group II, claims 11, 12 and 16 drawn to isolated polypeptides.

Group III, claim 13, drawn to antibody.

Group IV, claim 14, drawn to a host cell expressing polypeptide of Group II.

Group V, claim 15, drawn to method of making polypeptide.

Group VI, claim 17, drawn to method for polypeptide-based method of treatment.

Group VII, claim 18, drawn to polynucleotide-based method of diagnosing a pathological condition.

Group VIII, claim 19, drawn to polypeptide-based method of diagnosing a pathological condition.

Group IX, claim 20, drawn to polypeptide-based method of identifying a binding partner to the polypeptide and to a product determined by this method.

Group XI, claim 21, drawn to a gene.

Group XII, claims 22 and 23, drawn to polynucleotide-based method of identifying activity.

The inventions listed as Groups I-XII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The inventions listed as Groups I-IV, XI are drawn to different products which they lack the same or corresponding special technical features. Groups VII, XII are different methods of use of the product of Group I. Groups VI, VIII, IX are different methods of use of the product of Group II. Group V is method of use of product of Group IV.

Sequence Election Requirement Applicable to All Groups

In addition, each Group detailed above reads on distinct Groups drawn to multiple sequences. The sequences are distinct because they are unrelated sequences, and a further lack of unity is applied to each Group. The lack of unity is partially waived and the Applicants must further elect 10 sequences for examination in the elected Group detailed above. Payment of fees for an additional invention will entitle the Applicants to examination of four additional sequences.